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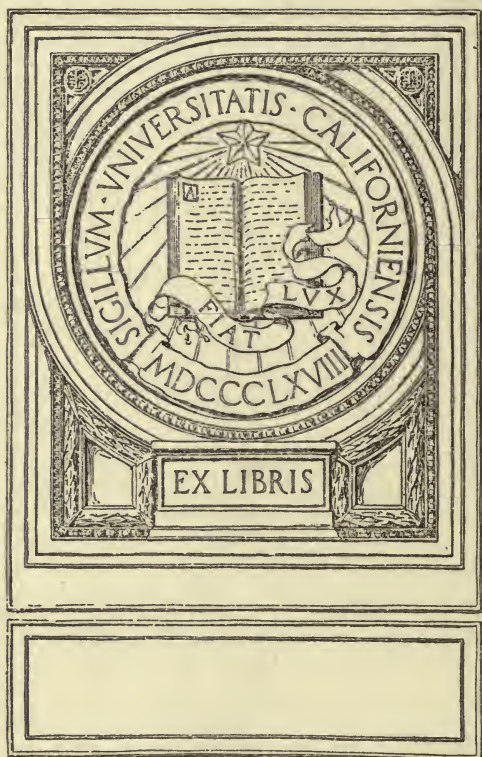
June, 1922

The Iowa Spelling Scales

Their Derivation, Uses, and Limitations

ERNEST J. ASHBAUGH
Professor of School Administration
and
Assistant Director, Bureau of
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OHIO STATE UNIVERSITY

PUBLIC SCHOOL PUBLISHING COMPANY
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I wish to thank the superintendents, teachers and pupils who gave so freely of their time and effort in securing the spellings and also the Dean of the Graduate College and the Director of the Extension Division who financed from their budgets the collection and scoring of the data.

Acknowledgments are also made to Dean Russell, Associate Professor Lewis, and Dr. Harry A. Greene for their sympathetic counsel and assistance throughout the progress of the study.

E. J. A.

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INTRODUCTION

The Iowa Spelling Scales have been extensively used. The relatively large number of words included in them and their freedom from excessive statistical manipulation have rightly commended them to practical workers. They have, however, been out of print for some time. Moreover, even those who are fortunate enough to possess the scales in their original form no doubt realize that they are capable of a more useful presentation.

Accordingly this monograph is offered for those who desire a complete representation of the scale in permanent form. The percents of correct spellings in each grade are given for each of the nearly 3,000 words of the scale. Nowhere else has such a detailed showing of the difficulty of the spelling of words been made.

An account is also given of the derivation of the scale; and this is no inconsiderable contribution. The reader will no doubt be impressed by the author's scientific attitude and by his unwillingness to compromise with his ideals of accuracy through adopting all-too-prevalent devices for smoothing out difficulties and then pretending that such difficulties do not exist.

We are glad to observe the position which Doctor Ashbaugh takes on the question of the degree of difficulty of the words which constitute the best testing material. In substance he says that the nearer they are to 50 percent accuracy for the grade in question the better. There has been a strong tendency among users of spelling tests to select words which were much too easy. This tendency has been fostered partly by the fact that the Ayres Scale lists for each grade only the words spelled by 50 percent or more of the children, and partly by the naive desire to see larger figures. Somehow one thinks more highly of a class average of 87 than of one of 46, although the latter may indicate a better performance.

The publication of the Iowa Spelling Scales in this form will place at the disposal of school people a far larger number of evaluated words than have hitherto been generally available. This richness of material will greatly enhance the usefulness of the scale. Duplicate lists can easily be made, and a prolonged program of testing can be carried on without the necessity of making allowance for practice effects. Moreover, the fact that the words of the scale are selected on the basis of frequency of use in correspondence renders the material particularly appropriate for teaching and drill purposes. In fact as a spelling book this monograph has high value. The appropriateness of the words is assured because of their frequent use in correspondence—that is, in the only situation where spelling ability is sure to be required—while the known difficulty of the words permits intelligent grading and distinctions in teaching emphasis.

B. R. BUCKINGHAM, *Editor*.

SECTION I

INTRODUCTION

FIELDS OF EXPERIMENTAL PEDAGOGY

The last two decades have witnessed a large amount of work in the field of experimental pedagogy. This has principally followed three general lines, namely, (1) the selection of subject matter, (2) the determination of efficient methods of teaching or learning, and (3) the formulation of more or less objective measures for checking the results.

The Committee on Economy of Time of the National Education Association through its three reports (1) has done a large amount of work in the selection of subject matter. These reports have challenged the attention of superintendents and the recommendations have been written into numerous courses of study. State Teachers' Associations have taken up the work; their committees have attacked the problem and in many cases have added something to this re-direction of education.

The determination of efficient methods of teaching and learning has appealed to psychologists and teachers. In laboratories and experimental schools much time and effort has been spent in gathering bit by bit the evidence for the different subjects. The experimental evidence in reading, writing, spelling, arithmetic, drawing, and music, and such conclusions as are warranted thereby, have been collected from the various schools and are presented by another committee in the Eighteenth Yearbook. (2) Further consideration will not be given to this field since it is not pertinent to the research in this monograph.

The effort in the third line has brought forth the large number of scales and tests now available. The measurement of progress requires an accurate means of measuring initial status. The comparison of one class with another, or of one school system with another, especially when the testing must be done by different persons, also requires a measuring instrument little influenced by different personalities. One of the goals of the makers of standardized tests and scales has been to obtain an objective measuring instrument as little disturbed as possible by the individual using it.

Perhaps in no subject has there been more experimental work done than in spelling. The subject lends itself to careful study in the fields already designated. The investigations which we wish to review briefly as an introduction to the present study have dealt with two problems: (1) the determination of the vocab-

ulary which should be included in children's spelling, and (2) the derivation of objective scales for the measurement of spelling ability.

STUDIES IN THE DETERMINATION OF VOCABULARY

An examination of the tabulation¹ shown in Table I will reveal the fact that the sources investigated for the selection of spelling vocabularies fall into four general groups; (1) occurrence in reading vocabulary, (2) occurrence in school lessons or classroom work, (3) occurrence in children's compositions, and (4) occurrence in correspondence, usually that of adults.

The first attempt to compare carefully the spelling work of different school systems seems to have been reported by Rice (14) in 1897. In 1895 he sent out a list of fifty words to superintend-

TABLE I. CONSPECTUS OF VOCABULARY STUDIES.

AUTHOR	DATE	SOURCE OF MATERIAL
Knowles, Rev. J. (3)	1904	Passages from the Bible and various authors
Eldridge, R. C. (4)	1911	Articles of Sunday Newspapers
Ayres, L. P. (5)	1913	Personal and Business Letters
Jones, W. F. (6)	1913	Children's Composition
Cook, W. A. and O'Shea, M. V. (7)	1914	Family Correspondence
Nicholson, Anne (8) (Editor)	1914	Selected by teachers and supervisors from daily lessons
New Orleans Public School List (9)	1916	Children's School Work
Kansas City Public School List (10)	1916	Selected from pupil's misspelled words and teachers' judgment of words pupils should know how to spell
Houser, J. D. (11)	1916	Letters of farmers
Anderson, W. N. (12)	1917	Written correspondence of Iowa People
Horn, E. (13)	1918	Correspondence of Bankers to Bankers

ents in various sections of the United States. Twenty responded sending in the work of more than 16,000 children. The results of the test showed enormous variations, but a two months' tour spent in visiting the various schools convinced him that much of this variation was due to the peculiar manner in which the examinations had been conducted. Also careful pronunciation of several of the words would have given a clue to the spelling.

¹ This tabulation presents only the more important studies from the different sources. For a more complete list see Anderson, W. N. "The determination of a spelling vocabulary based upon written correspondence." (Dissertation, University of Iowa, 1917.)

For these reasons the results of the test were considered unsatisfactory.

A second test involving fifty words in grades four and five, and seventy-five words in grades six, seven, and eight in sentence-dictation form, was given to 13,000 children in eight school systems. In these cases the tests were given under his personal direction and checked by his assistants.

Dr. Rice made no statement in his report regarding the manner of selecting his words except that in the second test "special care was exercised to omit words whose pronunciation would tell the secret" (15) of the correct spelling.

Too much credit can scarcely be given Rice for his pioneer efforts. He initiated the whole measurement movement. Two criticisms, however, may be directed against his work: (1) the words were not selected on the basis of those which children need to learn to spell; and (2) the words were of greatly varying difficulty but were given equal value in scoring. The best evidence in support of the first point is, that of the 77 words used in the second test, 15 do not occur among the 4,000 words of highest frequency in the combined results of the nine most extensive studies of correspondence.² These words are: almanac, ascending, changeable, conscientious, deceive, elegant, fatiguing, hopping, laughter, listened, praise, sensible, slipped, sweeping, whistling. Of these, six do not appear in any form, even the most simple.

Rice recognized that the material for spelling instruction should be selected in such a way as to eliminate unusual words. This is shown by two quotations: "The absurdities incident to the so-called 'natural method' were shown very clearly during one of my visits to a fifth-year class, when the pupils, who had studied the pine, were about to write a composition on the subject. In preparation, the spelling lesson of the day consisted of the following words: exogen, erect, cylindrical, coniferal, irregular, indestructible, pins, resinous, and whorls." (16) His fourth recommendation concerning the course in spelling reads thus: "Precedence should be given to common words, while technical and unusual words should be taught incidentally." (17) However, he gave us no clue as to how the "common words" should be detected.

That Rice's words were of greatly varying difficulty was pointed out by Thorndike (18) who gives the relative frequency of mistakes within the same group of children for each of the forty-nine words taken by Dr. Rice to be equal measures of spell-

² The results of this compilation have not been published. Access to the data was secured through the kindness of Dr. Horn.

ing ability. These forty-nine range from a frequency of forty-two errors to zero. Unfortunately, the table does not give the total number of children attempting the test, so it cannot be placed on a percentage basis.

The reader's attention is called to Table II. This table gives the frequency of error of fifth-grade children on five of Dr. Rice's words as found by Thorndike and the percent of error of fifth-grade children on the same words as shown by the Ayres scale and the present study.

TABLE II. DIFFERENCE IN DIFFICULTY OF FIVE WORDS REGARDED BY DR. RICE AS OF EQUAL DIFFICULTY.

Word	Frequency of Error Grade V—Thorndike	Percentage of Error Grade V—Ayres	Percentage of Error Grade V—Ashbaugh
necessary	42	58	77
disappoint	37	79	64
learn	3	12	14
because	1	6	6
picture	0	8	5

STUDIES IN DERIVATION OF SCALES

The studies intended to evaluate the words to be used in measuring spelling ability have been but two in number previous to this monograph.

Buckingham. (19) In 1913, Buckingham presented the educational world with the first spelling scale. He did preliminary testing with a list of 270 words selected from a much larger list of graded words used by the author in his own school. These had been selected by taking from five of the popular spelling books then in use, a vocabulary of 5,000 words agreed upon by two or more of the books, and then following two principles: (1) "that all of them should be sufficiently common to be in the speaking vocabulary of third-grade children," and (2) "that the spelling difficulty of many of them should be great enough to test the ability of eighth-grade children." (20)

These words were placed in sentences and dictated to grades three to eight. On the basis of the results, a group of 100 words were chosen which in general showed the following characteristics: (1) That the word was not so difficult that it offered no test of third-grade ability. (2) That it showed a steady increase through the following grades but did not reach so high a figure in the highest grades as to prevent its being a test of ability there.

These words were placed in sentences and their difficulty determined by additional testing. By this process he finally arrived at a first and a second preferred list of 25 words each. In order

to get a measure of zero ability, an easy list of fifty words was devised. These words were then evaluated with a high degree of precision and were presented for testing purposes in the form of ten-, twenty-five-, and fifty-word scales.

The small number of words limits the usefulness of the scale since the entire list can be quickly learned to 100 percent median accuracy by a class of ordinary ability in the upper grades. The study is of great interest to advanced students of education because of the great refinement of method. It is doubtful, however, if the high degree of refinement adds anything to the value of the scale for practical use by teachers, principals, and superintendents in the field.

Ayres. (21) Probably the most advanced step in spelling measurement was taken by Ayres in 1915 in presenting his Measuring Scale for Ability in Spelling. The 1,000 words in this scale were secured by combining "the results of the several studies so as to secure the most reliable list as a foundation for the work." (22) The placing of the "one thousand commonest words" in the measuring scale assumes that children should be taught and be able to spell these "commonest words" even though they are unable to spell other words. With this assumption we agree.

Two criticisms will be offered concerning the selection of the words:

1. The list is a hybrid since it is made up by combining correspondence frequencies with newspaper and literary frequencies. A comparison of these 1,000 words with the most extensive studies of correspondence reveals 33 words which never occur in these correspondence lists, and 71 others which do not occur in the 3,000 words of greatest frequency. Such words as: arrest, convict, capture, estate, jail, mayor, police, testimony, victim, and witness, occur frequently in newspapers but only a few people ever have any occasion to write them. Why then should they be admitted to our minimal spelling lists?

2. In the selection of these words, root forms and derivatives were counted as one form unless they presented "different spelling difficulties." "Plurals and verb forms presenting no characteristic spelling difficulties beyond those inherent in the singular or infinitive have not been included. (23) Researches by the writer (24) have convinced him that almost without exception derived forms are spelled with less accuracy than root forms, however simple the change involved, and that one cannot select by inspection the forms having slight variation from those having wide variation.

A further criticism must be made on the regularity of the advancement of words in the scale. If all words were learned at the

same rate, this regularity might exist. Buckingham found that most of the words which he tried out did not progress regularly and that frequently there was a reversal instead of advance in accuracy from one grade to another.

He says, "In order that this list should be of greatest value it should be so constituted that the increases in percents correct so keep pace with the increase from grade to grade of general spelling ability that a word tends in all grades to maintain the same difficulty relative to all other words in the list to which it belongs. A word which is twentieth in point of difficulty for the third grade ought to deviate as little as possible from the same rank in the other grades. The experience gained in making this investigation leads us to think that most words do not meet this condition, even approximately. The span between the third and the eighth grades is very wide. Accordingly, a very large class of words is impossible for the earlier yet easy for the later grades. Still others are really difficult in the lower grades, but of almost no difficulty in the upper grades." (25)

The following illustration from Buckingham's Preferred Lists show that although he purposely rejected the most irregular words, irregularities still existed.

TABLE III. PERCENT OF ACCURACY WITH WHICH CHILDREN OF SUCCESSIVE GRADES SPELLED EACH OF THE GIVEN WORDS.³

Word	Third	Fourth	Fifth	Sixth	Seventh	Eighth
saucer	11	29	42	58	79	81
raise	21	54	67	84	93	94
already	16	42	43	62	44	77
grease	11	18	37	35	42	57

This table is read as follows: The word "saucer" was spelled by third-grade children with an average accuracy of 11 percent; by fourth-grade children with 29 percent; by fifth-grade children with 42 percent, etc. The percents for the other words in the different grades are read in the same manner.

The first two words show rather consistent increases up to the seventh grade and practically no increase from seventh to eighth. The other two show actual instances of lower accuracy of spelling in one grade than in the previous grade.

The present study shows numerous illustrations of the same phenomenon. Since no word was rejected, lapses appeared, as might have been anticipated from the fact that they occurred in Buckingham's highly selected list. Further, these lapses occur

³ These words with their accuracies were selected from Buckingham, B. R. *Spelling Ability—Its Measurement and Distribution*. Table III, page 14.

much more frequently in cases of high accuracy (i. e., very easy words) than in those of medium or low.

Because of these findings, a serious question must be raised concerning the amount of smoothing which Ayres must have done to get the perfect regularity from grade to grade which he has upon his scale.

In order to present the situation as it was actually found, it was decided to provide in the present study a separate scale for each of the grades and to include in each scale the whole number of words. Ayres arbitrarily rejected from consideration all words for each grade whose accuracy fell below the middle step. In the present study, no smoothing has been done to show regularity of progress from grade to grade and no words have been rejected from any grade scale regardless of the low percent of accuracy involved.

In the field of measurement, the Ayres scale has had a much wider influence than that by Buckingham. More than eighty-five thousand copies have been distributed in less than four years. Many spelling tests, such as those by Courtis (26), Monroe (27), Fordyce (28), and the writer (29) have been based directly upon it, and probably hundreds of superintendents have adopted it outright as a minimal list for their schools.

SECTION II

THE PROBLEM

Extension work by the writer among the school people of Iowa has brought the following facts clearly to his attention:

1. School people are eager to use the results of scientific research in their school rooms.
2. They have used and appreciated the Ayres Spelling Scale but rightly think that there should be a larger list.
3. For this larger list to be of most worth, the words must be evaluated in some manner.

It was therefore believed that a distinct service would be rendered the schools of the state if a much larger list, scientifically selected, should be evaluated and made available.

At the time the work was begun, the most extensive study of correspondence vocabulary was that of W. N. Anderson. Through the tabulation of 3723 letters of Iowa people, 361,184 running words revealed 3105 different words having such a frequency as to justify, in his judgment, their being taught in school. The Anderson list was an Iowa correspondence list, scientifically selected and containing sufficient words for a much larger list than had ever before been evaluated. Thus the problem became definite—the making of an *Iowa Spelling Scale*.

SECTION III

METHOD OF GATHERING THE DATA

SELECTION AND ARRANGEMENT OF WORDS

For administrative convenience, only 3,000 words were taken from Anderson's list. The words were listed in order of decreasing frequency and the first 3,000 were arbitrarily chosen. These 3,000 were divided into three sets of 1,000 words each, dividing the frequency as equally as possible. For example, the words *and*, *the* and *to* being in order the words of greatest frequency in Anderson's tabulation, became the first word respectively of each of the three sets. The 4th, 5th and 6th words in order of highest frequency became respectively the second words of each set, and so on. Each set of 1,000 was then divided into ten lists of 100 words each.⁴ In each set, the 1st, 11th, 21st, etc. words became list 1; the 2nd, 12th, 22nd, etc. became list 2; etc. Thus each list included words ranging from very high to lowest frequency of occurrence in Anderson's study. These lists were printed 100 words on a sheet, and the ten lists of a set clipped together.

CO-OPERATION OF THE SCHOOLS OF THE STATE

An invitation to co-operate in a state-wide survey of spelling was sent to the superintendents of schools in all cities and towns of the state, having a population of 1,000 or more. A few smaller places were also invited to participate. More than 150 superintendents promised the co-operation of their teachers in this work. Enough sets of words were sent to each of these superintendents to supply his teachers and printed instructions accompanied each set. A copy of these instructions and list 1 of the set will be found on pages 142 and 143.

These instructions requested ten days work from each class. The children in Grades II-IV were to spell 500 words at the rate of 50 per day and those in Grades V-VIII were to spell 1,000 words at the rate of 100 per day. All spellings were to be made without preliminary study or any teacher help. Children in all grades were thus asked to spell all the different words, although it was surmised that many of them would not be spelled by lower grade children. Preliminary experiments, however, had definitely shown that one could not predict with a high degree of accuracy what words the pupils in any particular grade would misspell.⁵

⁴ The reason for the division of the 3,000 words into sets of 1,000 and lists of 100 will be understood from the instructions to teachers. See page 143.

⁵ A very simple experiment in this line was made by the writer with his University class composed of school superintendents and teachers. List 1 of the present study (see page 142) was given to each member of the class with

It was therefore deemed necessary to ask a large number of pupils in each grade (II-VIII inclusive) to attempt to spell each word.

After the 3,000 words were printed and sent out, it was discovered that there were twenty-three words duplicated. Seventeen of these were duplicated in Anderson's original list, while there were six other duplicates due to typographical errors. Thus the list of 3,000 was reduced to 2,977, the number which appears in the completed scales.

The response of the superintendents, teachers and pupils was most gratifying. More than 100 school systems were able to do the work and send in the results. A list of these cities and towns is given on page 144. A conservative estimate indicates that nearly 1,400 teachers and 45,000 children participated in the work.

SECTION IV

METHOD OF HANDLING THE DATA

This very generous response brought in several times as much material as could be used. Hence, a random selection of papers on each list was made from all schools returning data in any grade. This means that on the average, about thirty-five cities and towns are represented by pupils in the determination of the position of each word in each scale. At least 200 spellings were used for each word and the total number of spellings used on the 2977 words in the seven grades was 4,662,200.

All data used were scored or re-checked by the writer or by assistants carefully instructed by him. As has been found by everyone investigating spelling, a number of arbitrary decisions had to be made. Words omitted; words illegibly written; words

the request that he should mark each word as follows: H if in his judgment the pupils of fifth grade would spell the word with an accuracy of from 67 percent to 100 percent; M if they would spell with an accuracy of 34 percent to 66 percent; and L if they would spell with an accuracy of 33 percent or less. The results showed that in spite of the great latitude allowed, but 45 percent of the judgments were correct as compared with the results in this monograph; 31 percent of the judgments were one unit wrong and 14 percent were two units wrong. Two units wrong means that words which pupils spelled with an accuracy of 67 percent or higher were judged as 33 percent or lower and vice versa. Even when the nineteen words whose spelling accuracies by the pupils fell within 5 percent of the dividing points, 33-34 and 66-67, were not considered, only 48 percent of the judgments were correct; 40 percent were wrong one unit and 12 percent were wrong two units. In other words, when experienced school men and women attempted to judge the accuracy with which children would spell a set of words, they were more than 10 percent wrong with more than half the cases and more than 33 percent wrong in 12 to 14 percent of the cases.

substituted due to misunderstanding the pronunciation; wrong form of homonyms; changes in number and tense except when the change involved an addition to, but no change in, the form given were all counted wrong. But one form of spelling for a word was considered right except the few words for which Webster's New International Dictionary lists two spellings as equally correct.

SECTION V

ASSUMED DISTRIBUTION OF ABILITY

It was stated in Section II that part of the problem was the evaluation of the words which had been scientifically selected. When the percent of accuracy of spelling has been determined, one form of evaluation has been made, but this is not entirely satisfactory, as will be shown later.

NORMAL PROBABILITY CURVE ASSUMED

Figure 1 presents a typical normal probability or normal frequency curve. The curve has the mass of its area in the central part and but a small part near the ends.

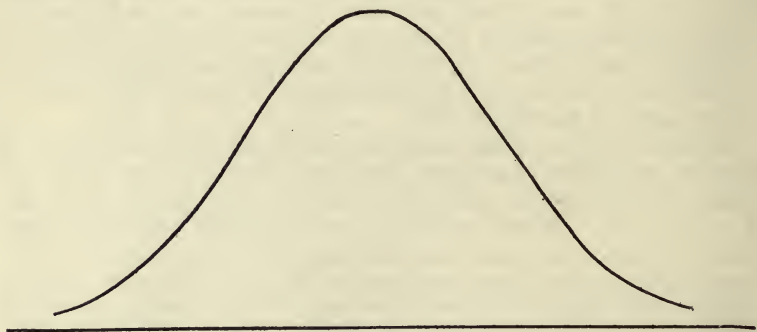


FIGURE 1

This form of distribution has been found to hold true in such human traits as height, weight, length of arms, etc. The great majority of adult men cluster closely around the mean height or weight of all adult men while a decreasing number divide about equally in varying above and below this mean. Only a few vary widely, but those who do are about equally divided as to the direction of their variation.

Does this normal frequency distribution hold true in mental as well as physical traits?

It is a well recognized fact that people with mediocre ability are much more numerous than the dull or the brilliant, and that the very dull and very brilliant are few indeed. Hence, common observation would suggest that general mental ability is distributed in the same manner as physical traits. Does this hold true, also, of the distribution of special abilities such as spelling, arithmetic, language, etc?

The various scales for measuring special abilities such as the Buckingham and Ayres Spelling, Woody's Arithmetic (30), Green's Organization (31), and Trabue's Language (32), have been developed upon the assumption that special abilities are so distributed. The best proof perhaps that the assumption is valid, is that if the assumption is made the results that follow are in very close agreement with the known facts. For these reasons, it was decided to make the same assumption in the present study.

SOME PROPERTIES OF THE CURVE

The mathematical properties of the normal probability curve have been very carefully and elaborately worked out on two bases, namely, the Probable Error (P. E.) or mean deviation, and the Sigma (σ) or standard deviation.

The Probable Error, as a function of the normal probability curve, is that perpendicular distance from the mean at which, if an ordinate is erected, the surface included between this ordinate, the curve, the mean ordinate, and the base line includes 25 percent of the surface included by the whole curve and the base line.⁶ In

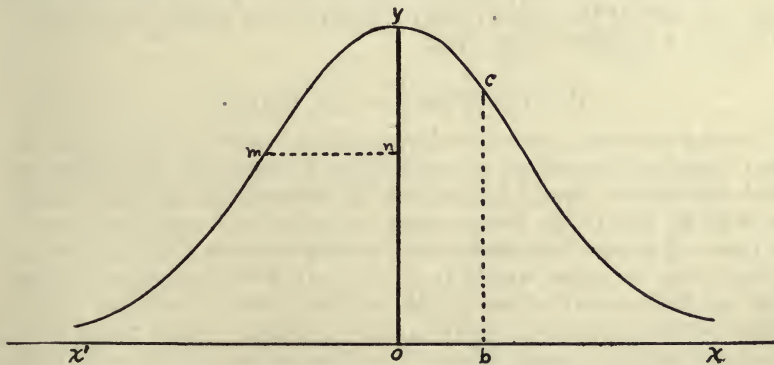


FIGURE 2

⁶In theory the curve and base never meet, the lines being in asymptote, but for practical purposes they are considered as meeting at some given distance from the mean. It is in this sense that we may speak of the surface included between the curve and the base.

Figure 2, *ob* is 1 P. E. distance and *bcyo* includes 25 percent of the surface $x y x'$.

Likewise, Sigma or the standard deviation, as a function of the normal probability curve, is the perpendicular distance to the mean ordinate from the point on the curve where it changes from concave to convex; *mn* in Figure 2 represents this distance.

Both Probable Error and Sigma, being functions of the normal probability curve, bear constant relationship to the curve regardless of the variability of base and altitude. Through easily accessible tables, the amount of area included by the curve, mean, base, and an ordinate erected at any given Probable Error or Sigma distance, can be found.⁷

Buckingham, in the development of his spelling scale, used Probable Error and arbitrarily broke off the curve (which theoretically forever approaches the base but never meets it) at ± 4.6 P. E. This disregards but about one-tenth of one percent of the total surface on either side of the mean.

Ayres, in making his scale, used Sigma and arbitrarily broke the extremities at $\pm 2.5 \sigma$ which disregards about six-tenths of one percent at each end.

After considerable experimentation, the writer decided to follow Ayres and use the $\pm 2.5 \sigma$ curve for the following reasons:

1. In practical schoolroom work it is doubtful if it is worth while to differentiate spelling differences of less than one percent. To extend the curve beyond $\pm 2.5 \sigma$ which is approximately the same as ± 3.75 P. E., necessitates this finer differentiation.

2. Since 893 words⁸ are common to the Ayres Scale and this study, the use of the same form of distribution would permit comparisons not possible otherwise.

PLACING WORDS IN THE SCALE.

Having assumed the normal probability curve, and having decided upon the measure of variability to use and the limits at which the curve should be arbitrarily broken off, the next problem was to decide on the number of steps into which to divide the base. The spelling accuracies varied in most grades from at or near zero on some words to at or near 100 percent on others. That is, there were some words which children of any grade spelled with perfect or nearly perfect accuracy while there were other words which were missed by all or nearly all the children.

⁷ For further discussion of the theory of the normal probability curve, the reader is referred to: Rugg, H. O., *Statistical Method Applied to Education*, Ch. VII.

⁸ There are 893 words which appear in both studies which are identical in form while there are 25 others which differ in suffix only. Of these, 10 differ in the suffix "e-d" and 5 in the suffix "s."

In theory the number of steps or divisions into which the base may be divided is infinite, but practical considerations limit the number to but a few. Since our assumption of normal distribution predicates that the number of very good and very poor spellers are few, it is necessary to make finer discriminations between those percentages lying near the extremes of the scale than between those lying near the middle. The larger the number of steps or divisions into which the base is divided, the finer the distinctions drawn all along the scale, but especially is this true near the extremes. As has been stated, however, a finer discrimination than whole percentages can hardly be justified in an instrument designed for practical schoolroom measurement. On the other hand, but few divisions would tend to cover up differences which should be revealed.

Again, after much experimentation it was decided that the division of the base line into twenty-five equal steps, as Ayres did, gave the best results since it permits single whole percentage discrimination of differences near the extremes and does not group together too large percentage differences in the middle.

If there were an equal number of each grade of ability, excellent, good, fair, poor, and very poor; that is, if the frequency surface were a rectangle, then the percentage valuation would be very satisfactory. But we know this is not true and have assumed the distribution to be that of the probability curve instead. Therefore, words which differ by a single percent in the accuracy of spelling do not always represent equal differences in difficulty. Reference to Figure 1 will show quickly that the linear distance between two ordinates so erected as to include between them, the base and the curve, one percent of the whole surface will differ much depending upon whether the ordinates are erected near the median or near the extremes. One of these twenty-five parts into which we have divided the base will underlie approximately nine percent of the surface if located at the median, about four percent if located midway between the median and the extremes and only one percent if located near the extremes. It is this recognition of the type of distribution of ability which makes the percentage evaluation unsatisfactory.

On the basis of the accuracy of the children's spellings, each word was then placed in its proper step or position on the scale. Because it was thought that students of experimental education might care to have the finer distinctions which are not afforded by the step position alone, it was decided to keep the percentage groups within the steps of the scale separate and designate the exact percentage accuracy with which each word was spelled by the children.

If the difficulty of words be defined in terms of differences in position among the steps of the scale, then the words which lie in a single step are of approximately equal difficulty and the words in one step are as much more difficult than those in the previous step as the words in any other step are more difficult than those in the step preceding it. That is, the degree of difficulty between steps is constant throughout the length of the scale.

It will be perceived, of course, that the difficulty of spelling a word is thus defined in terms of the accuracy with which children in a given grade responded to the word under the conditions described in this monograph. It has nothing to do with the inherent difficulties of teaching or learning the word except to the extent that these may be reflected in the accuracy of the spellings of the pupils.

Throughout this monograph, spelling ability is spoken of in terms of efficiency of performance. The only measure of ability which we have for mental traits is in terms of performance. This is common usage and we believe it is perfectly justifiable. We measure ability to read, ability to add, ability to hit a target, ability to lift a weight, etc., in terms of performance. In all these activities, we find by measuring a large number of cases that a few are very good, a few very poor and the majority of all cases occupy an intermediate position. In other words, these various abilities distribute themselves about in the form of the normal probability surface of frequency. It has been the assumption upon which these scales have been built, that spelling ability, ability to do this particular thing under the given conditions, is distributed in this same manner. The scales do not concern themselves with the child's inherent capacity to learn to do, or the difficulties inherent in the words themselves.

SECTION VI

USE OF THE SCALES

These scales lend themselves to at least three uses, namely, (1) measurement of status of spelling ability, (2) measurement of growth in spelling ability, and (3) a minimal spelling list for teaching purposes.

Each word having been placed in the scales on the basis of the accuracy with which children in the respective grade spelled it when presented in ordinary list form, any teacher, principal, or superintendent may use the scale to determine how well his own class or school can spell any group of these words in comparison with the children of Iowa as a whole. In making this comparison, the following things should be remembered.

1. That to secure comparable results, the words should be pronounced in accordance with the original instructions (See page 143) and the words scored according to the criteria stated on page 15.

2. That these spellings were from pupils who had on the average completed approximately one-half of the year's work for the grade. Tests given at the beginning or end of the year's work should be interpreted accordingly.

3. That to secure equally reliable results, a much larger list of words must be used with a small group of pupils than with a large group.

4. That in general, words located near the middle of the scale, those with an accuracy of 35 percent-65 percent, are probably more reliable for measuring purposes than those near the extremes.

Words spelled with 100 percent accuracy furnish no test because all the children have mastered them. Some of them could undoubtedly spell much more difficult words. Likewise, words which are missed by all the children furnish no test since we have no means of knowing how much too difficult they are. Since there are many possibilities of wrong spelling against one possible right form, it is probable that 50 percent represents the maximum point of critical measure of a group. This conforms with the experimental work of Otis. (33)

MEASUREMENT OF STATUS OF ABILITY

In using the scales for measuring class and school status, it should be kept in mind that words of differing percents within a step are of approximately equal difficulty but to equalize even small differences, a random selection of words from all the percentage groups in a step should be made and these words pronounced as an ordinary spelling test without instruction or previous study. If the average of the class is the same as the average for the step or within the limits of the percents listed under one step, the class has a spelling status on these words about the same as the children of like grade in Iowa. If the class average reaches a percent higher than the highest listed under the step, the class is above average; if below the lowest listed under the step, it is below average.

A word of caution is perhaps in place. The teacher in using these scales must remember that the fundamental assumption upon which the scales have been built is that spelling ability distributes itself according to the normal probability surface of frequency. It must not be expected, therefore, that all the children in her class will spell all the words in a given test, even though

the words are chosen from a single step on the scale, with the same percent of accuracy. A wide range of variation is to be expected and a very narrow range would be quite unusual. Further, the words in a step have been placed there as of approximate equality on the basis of a large number of spellings and it is not to be expected that, with a small group such as a class, the accuracy of spelling on each of the words will be equal.

MEASUREMENT OF GROWTH OF ABILITY

In measurement of growth, two objects may be distinguished, (1) the measurement of growth or change due to a term or year of school work, and (2) the measurement of growth or change due to the use of a special method, device, or time variation during a greater or less period.

The first measurement will probably be the one of most significance to teachers and superintendents, and gross differences will be of greatest interest. For this reason, the differences may well be considered mainly in terms of step changes.

The second measurement will be of primary interest to special supervisors and students of experimental education. Since these persons are interested in more refined results, they should consider the individual percentage groups within the step. Whole step differences may frequently be larger than the changes brought about by the conditions involved in the experiment.

A MINIMAL SPELLING LIST

This list presents with a high degree of accuracy the words which people use most frequently in written correspondence. For this reason it is highly important that pupils in the elementary school learn to spell these words. By using the words of the scale as the material for regular class instruction, teachers may note class improvement, but they must recognize that as a scale it is becoming less and less valuable as a measuring instrument. However, the writer agrees completely with Ayres when he says, "Probably the scale will have served its greatest usefulness in any locality when the school children have mastered these words so thoroughly that the scale has become quite useless as a measuring instrument." (34)

SECTION VII

LIMITATIONS OF THE SCALES

The scales presented herewith are subject to certain limitations, some of which will be discussed in this section.

NUMBER OF SPELLINGS USED

In general, with a random selection the reliability of results increases as the square root of the number of cases involved. In the following scales, the number of spellings on each word in each grade was 200 or more. This number was selected as being a sufficient number to give a degree of reliability acceptable in this type of measurement.

However, in order to ascertain the range of variability which might be expected on the basis of 200 spellings in comparison with a larger number, 700 spellings were selected at random on a list of 100 words. The accuracy of spelling on each word was checked out per 100 spellings and three combinations of 200 each were compared with the accuracy of 700. The spelling accuracy of the 100 words in the 700 spellings varied from 100 percent for the three easiest words to 11, 15 and 20 percent respectively on the three most difficult words.

Since the words were to be placed in the scales in terms of steps of equal value as stated previously, it was thought that this examination of reliability of placement should be in terms of steps rather than in terms of percent. The total scale was divided arbitrarily into three-step groups on each side of the middle step. Then the three on each side adjacent to the middle step and this middle step were thrown together since there seemed no valid reason for keeping them separate, the percents in each step being symmetrically placed above and below the middle step. When the 100 words were distributed according to this grouping on the basis of accuracies obtained from the 700 spellings of each word, it was found that there were 12 words in the easiest group, 32 in the next, and so on as shown in column four of Table II.

Next the accuracy for each word on the basis of each of the first, second, and third 200 spellings was taken from its accuracy

TABLE IV. AVERAGE DEVIATION OF SPELLING ACCURACY IN TERMS OF SCALE STEP OF RANDOM SAMPLINGS OF 200 SPELLINGS FROM THE ACCURACIES OF 700 SPELLINGS.

Accuracy in Percents on 700 Spellings	Number of Scale Steps Within These Limits	Average Range in Percent Included in One Step	Number of Words in Group	Average Deviation in Scale Step		
				First 200	Second 200	Third 200
98-100	3	1.00	12	.42	.42	.42
91-97	3	2.33	32	.55	.60	.63
77-90	3	4.67	20	.49	.69	.41
24-76	7	7.57	33	.38	.27	.34
10-23	3	4.67	3	.50	.07	.93

on the basis of the total 700 and the average difference of deviation of all words within the group was determined. This average deviation in terms of percent was then converted into average deviation in terms of scale step by dividing by the average range in percent included in one step.

From these data it is concluded that since the average variation is less than 0.7 of a step in all cases but one, and is 0.5 of a step or less in more than half the cases, 200 spellings is amply sufficient for the degree of accuracy required in placing the words in a scale of this type.

DISTRIBUTION OF SPELLINGS

It may be considered a limitation on the scales that all spellings used were secured from Iowa school children. The answer to this is two-fold: (1) that the scales were designed primarily for service to the school people of the state of Iowa. From this standpoint this limitation becomes a positive recommendation. (2) On the basis of a state-wide study of spelling, involving 8818 children in Grades III to VIII inclusive, on spelling tests devised from the Ayres scale, the school children of Iowa spell with about the same average accuracy as children in the 86 cities involved in the Ayres study. This is shown by Table V.

TABLE V. COMPARATIVE SPELLING RESULTS: AYRES SCALE AND 27 IOWA CITIES. 20 WORDS, LIST SPELLING.

Grades	Third	Fourth	Fifth	Sixth	Seventh	Eighth
Number of Children	1620	1635	1841	1338	1228	1156
Iowa Average Scores	73	85	74	83	77	86
Ayres Standard	73	88	73	84	73	84

The table is read as follows: 1620 third-grade children spelled the 20 words with an average accuracy of 73 percent and the Ayres standard for these words is also 73 percent; 1635 fourth-grade Iowa children spelled the 20 words with an average accuracy of 85 percent while the Ayres standard on these words is 88 percent. The number of children and the average accuracy for Iowa children and the Ayres standard for the other grades are read in the same manner.

WORDS GIVEN IN LIST FORM

It is recognized that the spelling of words in list form does not give an exact measure of the accuracy with which children will spell words in their ordinary daily work. This condition is perhaps more closely approximated by a timed-dictation test. In neither case, however, can we be certain that the ability displayed

is exactly the same as that which will function when the child is writing spontaneously. These scales do present the accuracy with which children did spell these words when presented under the conditions described in the monograph.

WORDS OF VARYING DIFFICULTY PRESENTED IN THE SAME LIST

Making up the list of words on the basis of approximately equal distribution of words of high, median, and low frequency in written correspondence necessarily brought into the same list, words of widely varying difficulty. How far this tends to produce an inaccurate result in the spelling of the common words is not definitely known.

Due to the fact that 23 words were duplicated in the lists sent out, it is possible to make some comparison between the accuracy with which words were spelled when they occurred early in the list, preceded by words which were comparatively easy, and when the same words occurred late in the list, preceded by words of greater difficulty. Thirteen of these 23 words involved this situation of appearing one time rather early in the list and a second time rather late. A comparison of the accuracy with which the children in each of the different grades spelled the word when it occurred early in the list with the accuracy with which it was spelled by children of the same grade when it occurred late in the list, showed two things:

1. That in all grades there was a somewhat higher average accuracy on the words when they occurred early in the list, though some words showed the opposite situation. The median increase in accuracy in the seven grades on words occurring early in the list over the accuracy on the same words when occurring late in the list was but 2 percent. This difference in accuracy was greatest in the third and fourth grades, though a priori judgment had decided that this factor would most affect second-grade children and have less influence thereafter from grade to grade.

2. The average difference of spelling accuracy in these two grades which seemed to be most greatly influenced by this factor was practically identical with the range of percents included in a single step in the portion of the scale in which these words appear.

Since these words were placed in the scales in an intermediate position determined by the average accuracy of spelling in the two positions, it is quite certain that no word is misplaced more than a single step. It is probable that half the words are misplaced less than half a step (that is, not at all in the scale) due to this factor.

NO ZERO POINT ON THE SCALE

These scales in common with the Ayres scale, place the words on the basis of relative difficulty rather than absolute difficulty from a point which would indicate no ability at all. Because of this limitation, it is not possible to state that words appearing in any single step are so many "times as" difficult as words appearing in some other step. It is only possible to state that words in any step are as much more difficult than the words in the step preceding as the words in any other step are more difficult than the words in the step preceding that. In other words, the inter-step difficulty is approximately equal throughout the scale.

From the standpoint of practical usage the lack of an absolute zero-point presents no serious objection. In the measurement of progress, school people are interested in making comparison with norms and with previous status rather than in determining "times as" relationships. For this reason, a zero-point was not considered of sufficient importance to justify the large amount of additional work which would have been necessary to have secured it.

SECTION VIII

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SECTION IX

THE IOWA SPELLING SCALE

GRADE II

GRADE II

STEP 5—94%		in	get	singing
day	95%	let	play	they
it		that	some	with
		82%	told	68%
and	94%	did	75%	age
is		look	ball	am
me		so	cannot	box
		tell	hat	came
			ring	going
			this	hill
STEP 6—92%		STEP 9—79%		its
	93%		81%	like
he		have	them	mad
to-day		no	wind	pig
	92%	up	73%	playing
are		will	cold	red
at			door	ship
	91%	big	girl	thank
can		but	lot	top
		land	or	67%
		old	think	call
STEP 7—88%			72%	end
	90%	say	bee	far
all		ten	doing	from
the		79%	got	give
you		ago	May	had
	89%	an	sat	stop
be		hand	three	66%
go		hen	toy	free
	88%	into	71%	ice
dog		of	baby	king
not		on	eat	pin
see		us	has	put
she		78%	home	65%
	87%	as	pie	bed
boy		last	seeing	being
may		man	then	by
my		to	70%	fast
was		tree	bad	feet
		your	dad	fill
		77%	looking	find
STEP 8—84%		away	much	flat
	86%	cat	thing	green
good		fat	time	lay
	85%	gold	year	made
book		out		Miss
for		run	STEP 11—66%	
if		way	69%	night
	84%	we	bell	one
little			cap	sun
	83%	STEP 10—73%		64%
come			corn	bat
do		76%	five	glad
his		cow	hit	grass
how		dear	love	her
			over	

inside
make
milk
most
must
net
same
telling

63%

hot
name
now
wall

STEP 12—58%

62%

apple
band
bill
each
fall
nine
when
yet

61%

bid
cup
down
ever
kiss
mill
part
rest
school
send
six
tent
till
want

60%

bay
cent
forgot
gave
hold
live
Mr.
sent
stand
standing
week
wish

59%

best
bring
income

lost
papa
pen
poor
rich
room
seen
snow
sold
soon
sport
take
took
west
what

58%

aside
asleep
fun
him
landing
miss
mother
pay
sin
state
tip

57%

can't
cut
fish
food
grade
hay
here
met
rain
sleep
wet

56%

child
game
keep
lift
mud
rock
sit
small
tenth
than
there
trip
win
yes

55%

after
back

cake
coat
holding
left
morning
nut
plan
rose
shop
slip
stove

STEP 13—50%

54%

ask
bear
beside
blow
born
dust
farm
feed
finding
helping
lake
late
long
post
price
ride
seed
song
too
well

53%

along
bank
belong
date
deep
foot
happy
joy
kill
noon
plow
sad
said
set
shot
snowing
two
under
war
where

52%

about
art
ate
cool
fell
life
low
near
pass
place
rug
saying
sell

spell
spot
within

51%

around
city
forget
hall
just
kind
list
pick
stay
Sunday
town
upon
wife

50%

been
bit
black
blank
brand
car
fee
gather
grand
head
hers
print
shall
side
silk
sis
spring
tie
very
went

49%

arm
display
faster
finger

gate
Jan.
mind
nap
never
our
read
rod
roll
soft
spent
step
street
such
wanting

43%

bake
begin
drop
feeding
four
gray
hard
inch
letter
note
paper
pine
raining
rate
real
sheep
starting
thanking
wide
wool
work

47%

able
cord
fine
form
glass
goldfish
light
mamma
meat
nor
oh
order
plate
sight
sister
sweet
thin
were

while
why

46%

barn
became
become
blue
bog
coming
fair
ford
gland
hear
help
lived
maker
mine
open
rent
rip
shut
slow
son
sort
who
window
wood

STEP 14—42%

45%

banker
behind
better
bird
butter
calling
cash
drug
face
found
gone
grant
kid
lady
luck
mail
mate
might
nice
rust
stamp
still
store
table
without

bringing 44%
card
clear
corner
dark
dinner
fishing
mend
north
off
past
rush
show
smart
stone
tend
test
thinking
trust
try
wild
willing
working
yourself

43%

blame
boat
both
close
damp
drum
even
handed
hoping
lives
March
more
new
nose
ours
passing
pole
pools
render
saw
someone
sometime
walk

42%

added
asking
below
bet
cane
cast
class

colder
cooking
football
hand
however
June
leg
lone
lump
nothing
older
once
outfit
river
sixth
stood
these
tile
to-night
winter

41%

bright
drive
felt
fit
fort
glee
hog
inform
lie
master
only
pa
page
park
report
seem
seven
skate
something
start
teaching
wage
walking
whenever
wishing

40%

any
apart
brother
bunch
buy
care
chop
cream
forming
gown

herself
hour
hunt
hunting
ink
jump
large
longer
looked
loved
lovely
mark
myself
outside
ranch
reader
rice
saved
short
snap
snowed
swell
training
yellow

39%

afternoon
bugs
camp
coy
draft
drill
evening
feeder
getting
goat
handy
having
homesick
horse
I'll
know
lame
leave
lunch
meet
Monday
neck
printing
reading
renting
right
round
Sat.
shed
sock
spelling
summer

wake
worker
alive
backing
Christmas
clay
could
die
done
egg
Feb.
finish
flower
forgive
garment
given
grip
ha
inclose
kitten
least
ma
number
plum
porch
printed
road
rolling
scrap
slide
spend
stick
stunt
washing
yard

38%

STEP 15—34%

37%

across
again
badly
bite
boss
broke
clothing
contest
cost
cross
dandy
eye
farther
fight
frost
fur
great

harder
himself
keeping
market
move
overcoat
paying
sink
staying
storm
train
whatever

36%

case
clock
closer
darling
don't
farmer
filing
forth
hate
held
herewith
inasmuch
need
next
oldest
other
own
pack
rack
rank
roof
sick
sorry
south
supper
tank
teeth
their
wash
which
won't

35%

air
also
aunt
base
blood
catalogue
chair
chill
church
clean
cooler
cover

deal
fifty
fire
first
fresh
Friday
grit
ground
happen
killed
kinder
kindest
liver
longest
noted
pink
posted
recall
sack
safe
sending
sum
taken
trade
word
write

34%

alone
bean
beg
began
bother
boxes
delay
everyone
feeling
fellow
filling
gift
handsome
hardly
hole
indeed
insist
July
kindly
listed
loud
meal
mostly
mouth
neat
Nov.
Oct.
oil
picking
pride

riding
row
says
shame
shortly
sir
somewhat
space
spending
taking
tiny

33%

bench
called
dice
dose
east
eve
fear
half
holder
house
ill
intend
later
less
mean
meeting
peach
pending
profit
rabbit
remind
renter
sash
saving
soap
spoke
those

32%

adding
agree
ahead
belonging
catch
cattle
check
clever
club
count
covering
dead
deed
dress
every
father
file

flesh
folder
gas
gladly
lighting
likely
linen
making
many
pain
poorly
race
seat
seventh
shade
slept
stage
stating
ton
water
whereby

31%

act
asked
baking
beat
chose
creep
enter
floor
folk
funny
grandma
grind
job
nearer
needing
newspaper
none
pound
protest
sale
shape
smaller
stair
stock
teach
waste
white
woven

STEP 16—27%

30%

another
banking
begun
blew

chairman
change
charge
children
chum
crib
crop
deliver
drew
few
forest
fourth
frame
harvest
herein
hundred
I'm
joke
limit
larger
pair
party
please
post card
scout
showed
sooner
sound
strongly
together
treat
trunk
understanding
washed
weak
wonder

29%

amount
awhile
beef
before
belt
birthday
booklet
brick
closing
dearest
dearly
depend
depending
fail
fix
front
grew
hair
handling
hearing

heat
household
merry
Mrs.
named
payment
per
printer
rained
shipping
thick
thus
true
trying
visit
warm
you'll

28%

add
attending
basket
Bible
brought
brush
calf
cheer
Dr.
drilling
fitting
garden
gee
likewise
manage
mighty
nearly
present
selling
sleet
speed
stranger
sunshine
talking
thankful
track
trained
workmanship

27%

anyone
behalf
block
cared
carpet
carrying
chapter
cleaner
cleaning
cloth

coffee
content
credit
dare
Dec.
does
extent
former
growing
housekeeping
idea
lining
maple
nobody
opened
packing
paint
self
strike
strongest
sure
tax
teacher
until
wishes
worked

26%

admit
always
branch
coal
danger
December
film
granted
grown
heating
high
insert
isn't
January
knew
mass
month
ninth
November
oats
opening
pencil
point
press
program
pull
remark
saver
thread
tire

unless
wanted
wheel
yesterday
yoke

25%

all right
body
delighted
dressed
dresser
eight
everything
family
glove
heap
inclosing
jar
loss
lung
mailed
marking
maybe
overlooked
people
played
queen
renew
seal
silver
somewhere
steel
talk
trusting
twenty
understood
voting
weekly
welcome
western
wire

24%

army
brain
broken
crowd
early
enjoy
filled
fund
handled
haven't
helpful
higher
invited
joyful
kept

kisses
lace
largest
lose
maid
member
membership
o'clock
oven
partly
planted
proud
rail
removed
rented
sheet
shipment
shoe
sire
started
tight
township
turned
twice
use
wear
wise
won
world
worth

STEP 17—21%

23%

almost
beet
bigger
burn
carry
closed
cloudy
colt
deeply
demand
died
dirty
enjoying
finest
fixed
greater
grove
inviting
main
match
October
oversight
plain

prior
prize
proper
pump
pupil
pure
regard
regret
remit
respond
sand
September
team
throw
understood
walked
would

22%

absent
adjust
afraid
anyway
battle
beaten
board
chart
copy
disposed
dollar
dream
flour
forty
fruit
gain
glasses
investment
latest
living
lowest
lucky
moved
namely
news
nineteen
oblige
per cent
picture
pocket
quick
seemed
simple
sixty
skating
soil
stuff
toward
tried

turn	habit	pillow	seller
velvet	hereafter	plenty	shown
21%	hereby	quart	sickness
aid	iron	quite	sitting
because	I've	regarding	slight
birth	junk	retail	talked
bought	knowing	rushed	throat
cook	law	seventy	twelve
crew	load	struck	vary
daddy	matter	thereafter	violin
exchange	permit	travel	waited
foolish	powder	tread	weather
frankly	public	Tuesday	weigh
highest	quit	upper	whether
hotel	Sept.	watch	writer
I'd	since	wheat	Xmas
inclosed	single		17%
itself	size	STEP 18-16%	acting
Latin	standard	18%	adopted
latter	supply		artist
loaded	title	above	attain
misses	vote	ache	cabinet
money	wagon	adjustment	chain
moving	wedding	afloat	chance
nerve	whole	already	damage
nicely	withdraw	April	debating
pretty	wrote	benefit	delivered
setting	yearly	charming	else
submit	young	chicken	enjoyed
taste	youth	closely	everybody
tested	19%	company	fifth
third	address	delayed	forgotten
thought	ans.	discount	globe
voter	anything	dispose	haste
wrong	anywhere	extra	hello
20%	blooming	grandfather	independent
agreed	buyer	greatest	informed
among	center	growth	known
attend	choose	hurt	labor
brown	coin	inspect	lamb
busy	counting	invite	lately
buying	doctor	joined	leaf
coach	edge	laid	liked
dance	entry	mailing	management
dated	fact	minister	needed
death	feel	moment	person
debate	forwarding	ninety	power
detail	French	odd	prevent
dwelling	friendly	otherwise	reaches
enclosed	inches	passed	ready
enclosing	item	placed	recently
fare	join	plainly	refund
fever	lumber	postage	rule
forenoon	mister	railroad	sore
forwarded	monthly	reported	study
goose	music	sample	tattooing
grain	perhaps	Saturday	ticket

tired
transit
Tues.
used
worm
zero

16%

advice
advise
agent
auto
await
bottle
country
dancing
didn't
enclose
fern
fifteen
friend
froze
further
greeting
handle
heard
helped
hoped
intended
lesson
loose
lower
message
nurse
owe
range
rapidly
raw
reach
reached
reaching
reply
rubber
sew
square
term
that's
unpaid
utmost
whom
wished
woman

15%

aim
anybody
anyhow
August

awaiting
booster
bottom
branches
building
cheerful
client
comply
devoted
dread
easy
final
finished
follow
fourteen
fully
hasn't
hurry
ideal
island
knot
largely
liberty
locate
lonesome
losing
loving
mistake
outlined
painter
pastor
presented
primary
proved
rainy
raised
repair
return
scare
score
semester
serve
sewing
shock
spare
speak
stayed
suit
temple
therefore
visited
wait
wondering

14%

afterward
ashamed

Aug.
basis
billed
bowl
buggy
captain
cartoon
change
changing
cleaned
clerk
clothe
control
county
covered
dealing
delightful
elect
expert
failed
flavor
fullest
gasoline
germ
gotten
gravy
hardware
hare
improve
inst.
kindness
ladies
loan
lonely
manual
mere
method
missed
office
ordering
packed
placing
provided
quickly
renewed
respect
ribbon
serving
should
slightly
smooth
speaker
stated
steam
thanksgiving
thereof
unable

uncle
useful
value
waiting
wearing
weary
wouldn't

STEP 19-12%

13%

alfalfa
aren't
boiler
booth
bushel
charged
classes
clearly
confined
constant
dozen
eager
extend
fairly
fancy
greatly
industry
learn
learned
leaves
level
lovingly
model
movement
needle
noise
owing
patent
pavement
pleased
proof
recent
recovered
remembering
served
share
slipper
taught
thousand
topic
wasn't
watching
women
you'd
zone

12%	second	recover	kitchen
answered	server	relation	leaving
apply	settle	remove	length
beyond	skirt	scale	limb
breaking	soldier	spirit	madam
build	tract	splendid	married
candle	using	steady	middle
caught	voice	stopped	misunderstanding
checking	Wednesday	strict	ordered
choosing	11%	subject	painting
coasting	advantage	suffering	preparing
color	agreeable	talent	properly
comfort	amendment	tanning	publisher
cough	backed	taxes	quiet
decline	bluff	to-morrow	quote
dependent	careful	truly	reason
desire	carefully	we'll	refer
earth	cause	witch	remember
eighty	caused	worry	represented
eleventh	colored	10%	result
enrollment	cottage	abstract	several
fence	court	advising	simply
forward	cute	against	spread
freeze	delivery	allow	stamped
friendship	disgusted	ankle	studying
furnish	during	answer	supplied
gaining	enough	answering	text
guess	entirely	applicant	Thursday
health	express	automobile	trace
hence	February	Ave.	wonderful
illness	federal	awful	X-ray
installed	formed	barley	STEP 20—8%
interest	formerly	bridge	9%
ivory	graze	Bro.	acre
leader	heavy	button	addresses
letting	history	cheap	advance
located	interested	coast	advertising
manner	interesting	collar	appeal
meantime	manager	condition	attach
northern	modern	crazy	attached
obliged	nevertheless	democrat	bass
offering	notion	destroyed	boarding
organ	offered	due	broad
ought	painted	case	candidate
owned	parlor	enroll	carried
patch	penny	entitle	cheaper
performed	piano	field	confident
problem	picnic	furnishing	consist
providing	post office	gallon	contain
quarter	prevented	gentleman	contained
rapid	promotion	hadn't	containing
record	prompt	heretofore	continue
refuse	promptly	important	convince
request	proves	including	cotton
rifle	putting	information	credited
safety	raising	invoice	
season			

customer	united	relative	graduation
daily	vacation	renewal	grammar
dairy	valued	republican	guide
data	view	reputation	heir
dealer	whose	returning	homestead
degree	writing	satisfy	honest
deportment	yourselves	shipped	human
direct	8%	shipper	hurried
discontinued	addressed	sign	improved
duty	advertise	situation	increasing
employed	ample	statement	jury
enrolled	argument	station	justify
entertainment	assist	sugar	learning
except	assortment	surprise	leather
favor	attention	thesis	librarian
firm	barely	though	limited
following	believe	touch	listen
fortune	blackberries	towel	literary
girlie	braid	visiting	location
happened	builder	waist	loyal
improving	built	we've	merit
instant	bulk	winner	obtain
instructed	cellar	7%	operation
intention	comfortable	ability	patron
internal	confer	according	perfect
international	continued	acted	perfectly
machine	daughter	active	piece
nation	education	addition	policy
normal	effort	adjusted	prepaid
ocean	establish	administrator	property
pattern	etc.	ambition	published
peace	figure	auntie	question
phone	fuel	between	register
phoned	gained	bracelet	regular
potatoes	gentlemen	break	regulation
postal	German	breakfast	remedy
prefer	good-bye	capital	remembered
president	grateful	cashier	rendered
promised	healthy	checked	resident
proven	meter	concluded	section
raise	officer	consider	seldom
reasonable	opera	considerable	shopping
remain	operated	contract	shoulder
replying	package	conversation	style
represent	payable	cutting	suppose
requested	pearl	desired	thirty
returned	planning	develop	total
ruin	pleasant	director	transfer
running	position	discovered	treated
rye	priced	dodge	vacant
student	Prof.	drama	valley
suggest	protected	entire	
support	provide	exceptional	STEP 21—6%
through	queer	explained	6%
trouble	raiser	fault	account
turkey	realize	fitted	action
uniform	reduce	force	actor

advertisement	ourselves	convinced	submitted
allowed	personal	correct	suggested
although	planned	course	suitable
altogether	popular	deserve	supposed
appear	possess	district	terrible
applied	possibly	doesn't	tickled
appointment	prayer	doubt	volume
average	preacher	earnest	watched
avoid	product	employee	
ballot	prospect	entertaining	STEP 22—4%
based	really	ere	
believing	realizing	estimated	4%
blessed	repeat	example	absolute
calendar	require	expected	absolutely
cherries	retain	explain	accept
choice	route	explaining	accordance
college	saddle	federation	advised
common	sanitary	female	alley
complete	satisfactory	foundation	appearance
congratulate	secure	general	appointed
consideration	secured	group	arrive
contemplated	separate	hailed	arrived
convention	settlement	headache	assuring
copies	silence	honestly	bonus
corporation	slippery	illustrated	butcher
correspondent	studies	include	canvass
couple	subscriber	included	capacity
cousin	surprised	invitation	carrier
curtain	throughout	lbs.	certain
decide	traveling	lodge	circular
decided	treatment	maintain	compelled
desiring	trial	mentioned	constantly
earning	weight	million	correction
eighteen	weren't	minute	crippled
either	worrying	moral	cure
election	worse	narrow	democratic
English	worst	noticed	deposit
entered		opinion	depot
envelope	advertised	owner	described
examination	affair	particular	directed
favorite	amounting	parties	disappointment
figured	attractive	personality	disposal
forced	beauty	pertaining	earliest
graduating	biggest	possible	elected
hesitate	calm	preparation	entitled
holiday	cement	prepared	evidently
honor	central	private	exactly
hospital	chief	quoted	exam.
husband	cigar	reliable	excuse
ironing	cities	reliability	exhibit
judge	combination	requesting	expired
label	commence	reserve	expensive
mention	conduct	salary	expressed
neglect	congratulation	select	fabric
notice	consequently	service	factory
notify	considered	sorrow	failure
orange	considering	stories	future

genuine	union	disease	occupied
graduate	urge	distribution	operating
guest	valuable	division	ordinary
handkerchief	welfare	dreadful	organization
happiness	worthy	durable	organized
headquarter	written	easily	original
immense	3%	employer	parcel
improvement	absence	entering	parent
inclined	accomplish	epidemic	period
increase	accommodate	equipped	practically
inquire	acquainted	error	practice
inquiry	administration	especially	premium
instead	adventure	established	prepare
instruct	agriculture	excellent	presume
investigation	allotment	excited	principal
jobber	animal	exciting	principle
judgment	anxious	expense	privilege
laugh	application	explanation	probably
lecture	appreciated	extensive	proceed
legal	arrange	factor	profitable
library	arranged	factories	promise
local	article	favorable	publication
manufacture	assembly	favored	rec'd
meant	assistant	feature	received
merely	athletics	figuring	recommend
nature	attended	freight	referred
neighbor	author	frequently	regardless
neighborhood	automatic	frozen	relieve
nervous	available	furnace	requirement
nickel	awfully	furnished	reservation
obligation	balance	garage	response
obtained	banquet	geometry	resulting
practical	bargain	ghost	Sabbath
practicing	brief	guarantee	salesman
procured	bulletin	guaranteed	satisfaction
produce	burden	imagine	satisfactory
progress	business	increased	secretary
purchase	carnival	identify	securing
purpose	cedar	indicate	sense
quality	certainly	inducement	society
receive	climate	immediately	straight
reference	collect	installment	subscription
referring	completely	instance	superintendent
refreshment	composition	institution	surplus
refused	concern	investigate	telephone
required	confirming	involved	thorough
respectfully	connected	journal	thoroughly
satisfied	connection	justified	timothy
search	conveniently	knowledge	usually
settled	co-operating	magazine	
signature	couldn't	material	
signed	council	materially	
special	crowded	measure	
surface	debt	mortgage	
sweater	difference	national	
theater	difficulty	naturally	
treasurer	direction	object	

STEP 23—2%

accordingly
additional
affectionately
annual
annually

anticipating	elsewhere	production	appreciation
appendicitis	engineer	proposition	approved
arrival	engineering	purchased	arriving
assessment	entertain	qualities	assigned
assure	equipment	quantity	assignment
assured	excess	readily	assistance
attempt	exclusively	receiving	associated
attendance	executive	recess	association
authorized	exercise	recite	assume
aware	exhibition	reduction	assurance
beginning	existing	registered	attraction
canned	experience	registration	authority
capable	expression	remembrance	avenue
certificate	extreme	representation	barrel
chautauqua	fashion	responsible	calves
Christian	finally	rough	campaign
circulation	followed	rural	candidacy
circuit	fraternally	selected	celebrate
circus	funeral	senior	channel
citizen	geography	similar	choir
civics	glorious	sincere	circumstances
coarse	gratitude	social	commerce
collection	grocery	solicit	commercial
commission	Hallowe'en	strawberries	community
commissioner	honorable	succeeded	companies
committee	illustration	success	conclusion
communication	importance	successful	conference
companion	impossible	superior	confirm
complaint	influence	supervision	connect
concerning	inquiries	system	consequence
concert	inspector	telegram	considerably
confidence	insurance	territory	constitution
connected	interfere	themselves	construction
connecting	issue	transportation	convenience
conservatory	junior	university	co-operation
consultation	language	variety	cordial
contemplating	legislation	weighed	cordially
contrary	liable	wholesale	corrected
co-operative	liberal	worried	correspond
correctly	literature		crochet
courage	machinery		crocheting
creamery	medicine	STEP 24—1%	coupon
current	mental	accident	dangerous
cushion	merchandise	accomplished	decision
customary	moderate	accredited	decrease
definite	musical	acknowledge	definitely
deliveries	neglected	actual	design
demonstrated	nephew	actually	destination
deserved	niece	admission	discourage
development	organize	advanced	duplicate
different	pardon	advancement	efficiency
directly	patient	algebra	efficient
domestic	permanent	analysis	electricity
doubtless	politics	anniversary	enormous
duties	positive	announce	enthusiasm
effect	preliminary	appeared	enthusiastic
electrical	presence	appreciate	essential

evidence
examine
examined
examiner
exception
exceptionally
exhausted
expecting
extended
extension
famous
fashionable
favorably
fierce
financial
furniture
generous
government
gradually
grippe
hastily
humor
hustling
illustrating
immediate
impression
inconvenience
individual
institute
instruction
instructor
instrument
introduced
introduction
issued
license
lieutenant
liquid
mechanical
necessary
necessity
neither
notary
notified
numerous
official

opportunity
orchestra
originally
particularly
physician
pneumonia
politician
possession
previous
produced
prosperity
receipt
reception
reduced
regretting
regularly
relationship
relieved
remained
remittance
representative
resigned
resource
scarce
science
selection
series
serious
sincerely
soliciting
specially
stationary
stomach
straightened
strength
strictly
struggle
studied
substitute
succeed
sufficient
supervisor
supplies
surgery
sympathy
tuberculosis

type
universal
unusually
usual
vision
zephyr

STEP 25—0%

acceptance
accompanying
acquaintance
acquire
activity
advisable
affidavit
agency
agricultural
alumni
ambitious
announcement
anticipate
apparatus
appreciating
approval
arrangement
associate
attitude
attorney
auditor
blizzard
bureau
character
characteristic
collecting
compliment
confirmation
continuous
convenient
correspondence
courteous
demonstration
description
difficult
disagreeable
disappoint

disappointed
encourage
equally
exact
excitement
executed
extremely
familiar
foreign
fortunate
fundamental
generally
inferior
ingredients
leisure
majority
manufacturing
maturity
mountain
natural
occasion
occasionally
peculiarities
personally
phosphorus
physical
possibility
prevail
process
profession
professional
prosperous
qualities
quotation
recommendation
responsibility
rheumatism
schedule
scientific
source
specification
unnecessary
unusual
various
vicinity

SECTION X

THE IOWA SPELLING SCALE

GRADE III

GRADE III

STEP 1—100%	92%	boy	looking
in	by	cannot	make
	come	hand	much
STEP 2—99%	get	run	must
is	have	sent	pay
	into	we	put
	may		sand
STEP 3—98%	on	87%	sat
are	one	ago	six
good	play	as	snow
he	say	down	sun
it	time	home	yet
	with	so	
	your	toy	83%
STEP 4—96%	91%	when	after
97%	an		bed
can	for	STEP 8—84%	bring
my	his	86%	cold
see	like	age	cow
that	man	bell	far
	some	door	foot
96%	the	from	ill
and	them	letter	just
be	up	live	kill
book	way	night	made
day		or	meat
she		red	they
	STEP 7—88%	thing	top
STEP 5—94%	90%	till	week
95%	big	us	82%
all	gold		back
at	got	85%	ball
but	had	bee	black
did	her	box	call
do	of	came	doing
little	over	coat	five
not	think	forget	gave
out	this	going	grass
was	tree	most	green
you	wood	three	hard
		throat	has
94%	ask	well	ink
dear	give	what	lot
dog	how		84%
eat	if	apple	mother
go	land	bad	Mr.
me	last	cat	playing
old	let	fast	ring
to-day	look	fish	ship
year	love	grade	Sunday
	tell	hat	tent
STEP 6—92%	ten	king	thank
93%	then	light	there
ice	88%	long	wind
will	being		

STEP 9—79%		singing	song	glad
81%	about	tenth	soon	here
	am	too	spell	hunt
	baby	town	standing	mine
	bank	war	start	note
	bay		state	sad
	best	along	told	shop
	each	aside	two	sold
	feet	car	under	stand
	fill	colder	want	stop
	food	face	why	table
	hill	fat	within	thanking
	him	girl		to-night
	inside	goat	STEP 10—73%	
	lay	hall	76%	wall
	May	house		win
	more	lake		
	seeing	late		74%
	send	left		bid
	sheep	March		cap
	without	off		eye
	work	oil		Feb.
	yes	once		first
80%		rain		flat
	away	same		help
	boat	stay		hot
	butter	take		Jan.
	cake	very		Miss
	cent			nice
	cut	backing		our
	ever	band		pink
	free	belong		print
	lost	blow		real
	Monday	cup		said
	morning	end		saw
	new	fell		seen
	no	fine		spent
	pig	flower		to
79%	place	fun		willing
	read	grand		yard
	stove	hay		
	sweet	its		73%
	went	mad		better
	west	now		bill
	working	nut		east
		overcoat		forget
		papa		goldfish
	become	part		lived
	child	pine		lives
	hen	ride		many
	milk	rust		myself
	name	side		net
	pie	silk		nine
	poor	sister		noon
	rich	snowing		open
	school	son		river
			able	rock
			around	set
			banker	show
			cover	sick
			dad	
			every	
			farm	
			Friday	
			game	

soft
window
winter

72%

any
baker
blue
city
cook
dance
die
dinner
gate
head
helping
inch
kiss
maker
mate
mill
near
older
paper
picking
post
rent
rose
shot
store
thin
tip
were
who
wide

71%

bird
brother
date
even
felt
finding
forgive
found
gone
kid
landing
life
pick
plow
seven
slow
stage
still
stood
supper
telling

washing
wish

70%

afternoon
barn
became
can't
children
cream
deep
drive
dust
faster
father
gray
heat
hit
hog
hour
large
mark
mud
oh
outside
page
price
rest
round
sell
spring
train
true
trust
water
wife

STEP 11—66%

69%

ate
beside
bit
clear
close
cost
could
dress
drop
fishing
given
ground
Oct.
other
rate
road
rug
saying

step
test
wanting

68%

arm
asking
bat
behind
below
brand
bright
danger
dark
fair
feed
fit
June
lady
lone
mail
north
nothing
order
race
rolling
sin
sit
spot
starting
teach
teacher
thinking
try
walk
yourself

67%

art
banking
been
blank
both
clay
Dec.
fort
glass
hair
however
master
Nov.
plate
Sat.
seat
shut
something
stick
street
teeth

those
took
walking
which
white
write
yellow

66%

adding
air
alive
belonging
cane
cattle
clock
coming
done
don't
fire
ford
form
garden
gather
handed
holding
kindly
leave
ma
making
market
meal
pa
paying
reading
report
stamp
whatever

65%

added
author
bet
born
bunch
cool
hers
hunting
income
January
lame
met
mind
move
right
rush
sending
sort
south

such
talk
wake
wild

64%

ahead
bean
buy
camp
cash
class
delay
drum
feeding
handy
horse
later
lift
neck
next
pack
peach
rank
short
slip
snowed
storm
these
wet

63%

also
brick
cast
clean
cooking
cord
dandy
display
flour
fur
ha
held
indeed
mouth
nap
roof
sound
spend
taking
track

STEP 12—58%

62%

bringing
draft
eight

eve
farmer
fear
few

fight
finger
July
longest

luck
mean
news
nose

own
party
per
poorly

reader
rice
sack
safe

sink
sir
smart
tank

tend
thereafter
tiny
trip

weak
wishing
would

61%

another
April
asleep
blame

brush
chair
coal
contest

corner
dead
deal
dearly

died
fellow
hang
hardly

hearing
herself
hole
inasmuch

kinder
know
larger

list
miss

nor
ours
pass
past

pencil
please
porch
post card

posted
rail
raining
saved

shoe
small
space
sugar

than
their
whenever
worker

yearly

60%

always
apart
asked
bite

block
body
cloth
count

cross
dream
fifty
football

great
job
loved
month

nearly
need
none
outfit

queen
shipment
sunshine
tie

Tuesday
wise
won't
yesterday

59%

across
afloat
beat
begin

blood
farming

harder
holder
jump
kitten

looked
meet
October
only

pain
pillow
pole
roll

sis
sixty
someone
staying

taken
talking
while
wonder

wool

58%

army
case
chop
church

darling
December
everything
forest

gift
glove
goose
half

happen
having
high
leaves

matter
pound
rained
seem

shade
shall
soap
sorry

stated
teaching
thought
twenty

wash
word
world

57%

agree
alone
anyone

anything	55%	oldest	color
basket	birthday	packing	creep
bench	Christmas	passing	deed
content	cleaning	point	dresser
egg	closer	ready	heating
filling	evening	recall	homesick
fix	glad	rented	hoping
frost	grandma	riding	island
fruit	hundred	rod	leader
grant	lace	says	learn
growing	least	sight	maid
kindest	noted	somewhat	oblige
lie	number	sore	opened
liver	otherwise	stranger	overlooked
money	pair	swell	rack
oven	planted	township	shape
peace	plum	treat	spoke
reach	pull	use	stunt
renew	pure	wanted	thankful
row	quart	washed	trade
self	ranch	53%	wage
should	saver	boxes	Wednesday
skate	sew	branch	51%
slide	snap	chart	bother
stock	sometime	earth	bugs
warm	speed	farther	carry
wheel	spending	folk	counting
56%	tested	grain	country
again	worked	I'll	crib
aunt	STEP 13—50%	inform	deliver
belt	54%	keeping	early
called	badly	mend	easy
carpet	because	mostly	eighty
check	bought	penny	finish
clothing	brought	powder	folder
damp	cheer	pride	former
enter	chill	quick	forth
floor	club	render	greeting
gladly	covering	saving	hate
law	crop	selling	hereafter
marking	dearest	sheet	lovely
Mrs.	drill	sooner	lumber
nobody	everyone	team	mailed
oats	fee	training	mma
orange	grandfather	trusting	paint
pocket	himself	welcome	person
printed	inclose	wheat	proper
protest	invited	whereby	proud
rabbit	itself	worth	52%
renter	leg	above	shed
silver	less	battle	soil
third	load	begun	steam
thread	lump	cared	study
thus	might	chain	thick
tile	November	charge	throw
wishes		closed	twice
			unless

wagon
youth

50%

booklet
brown
candle
depend
does
grew
grind
intend
killed
lighting
lose
maple
meeting
nearer
opening
payment
pools
pretty
remark
seventy
stair
understanding
walked
weekly
young

49%

all right
bog
boss
bottle
brain
busy
coffee
colt
doctor
fence
file
forty
fresh
glee
granted
handle
I'm
lunch
moving
partly
people
printing
renting
September
seventh
sixth
size

tire
trying

48%

anyhow
before
Bible
broke
copy
coy
drew
feeder
front
heard
herewith
higher
hoped
household
listed
match
mister
moment
picture
post office
remind
rule
seal
shame
speak
stating
sum
tax
ticket
turn
wear

47%

catch
change
cleaner
clever
death
dread
drug
garment
gee
gown
iron
knew
main
member
merry
moved
needing
nineteen
remove
rip
sash
scrap

speaker
ton
travel
trunk
used
velvet
wire

46%

afraid
almost
began
behalf
between
chicken
closing
dice
enjoy
fail
fifteen
flesh
frame
funny
grip
grown
inclosed
junk
kindness
kisses
laugh
lessen
liberty
living
maybe
named
neat
painted
pleased
printer
shortly
strongest
watch
won
woven

STEP 14—42%

45%

ans.
anyway
blew
branches
broken
buying
demand
French
getting
grove

housekeeping
invite
inviting
leaf
learned
liked
loaded
loud
painter
pending
played
pleasure
plenty
press
reached
simple
sleet
Thursday
together
tried
unable
waited
weather
woman
wrong

44%

beet
board
calf
cleaned
company
cotton
dare
Dr.
everybody
feeling
filled
gas
harvest
improve
inches
joke
joyful
largest
likewise
membership
newspaper
odd
pump
regard
regret
retail
rubber
scout
sewing
sock
somewhere

started	sure	gallon	lonely
strike	twelve	hardware	noise
turkey	understand	insert	regarding
voter	worm	knowing	reply
western	you'll	known	reported
writing	41%	latest	seller
wrote	act	meantime	sickness
43%	agent	monthly	utmost
auto	among	nation	weary
charming	ashamed	program	wished
chose	Aug.	raw	
dated	Ave.	settle	STEP 15—34%
drilling	awhile	sitting	37%
enclosed	cause	slipper	
filing	chairman	taste	base
finest	cooler	trace	building
handling	delighted	waiting	buyer
helpful	extent	whom	coach
hurt	fourth	writer	comply
I'd	fully	Xmas.	deeply
idea	heat	39%	delightful
insist	herein	address	dirty
latter	jar	beef	during
leather	likely	beg	fact
lower	loving	chum	fairly
mighty	music	crowd	forward
office	phone	damage	guess
plain	potatoes	discount	hare
present	power	duty	heavy
quite	prize	feel	hereby
recover	profit	knot	history
removed	prove	linen	informed
running	range	loss	join
smaller	reaching	manage	listen
that's	respond	packed	manner
Tues.	sale	painting	minute
42%	sample	perhaps	movement
afterward	steel	remit	namely
amount	until	retain	ordering
birth	wedding	since	organ
classes	women	slept	ought
friend	40%	suit	payable
glasses	already	therefore	prevent
globe	answer	title	provided
grip	anybody	uncle	quit
handsome	anywhere	visit	reason
hurry	boiler	vote	remain
learning	burn	workmanship	seemed
needed	chance	33%	skating
patch	cloudy	baking	thereof
postage	dose	bushel	tight
quickly	dozen	coin	trained
return	dressed	cottage	whole
Saturday	fifth	debate	witch
second	follow	gotten	withdraw
Sept.	frankly	greater	worst
	fund	limb	

36%
adjust
backed
bottom
buggy
button
catalogue
caused
checking
clearly
county
cutting
dancing
depending
eighteen
field
friendly
further
habit
isn't
lamb
leaving
lucky
mailing
misses
mistake
nerve
nevertheless
owing
pearl
proved
quarter
ribbon
setting
showed
spread
talked
Thanksgiving
tired
tread
treated
wait
watching

35%
August
awaiting
bigger
bulk
center
chapter
daily
enclosing
express
failed
family
fixed

haven't
highest
inclosing
outlined
placing
remember
serve
share
single
skirt
strongly
thirty
toward
visiting
34%
advise
agreed
break
Bro.
choose
coast
court
devoted
dollar
figure
film
frozen
gravy
handled
kept
letting
performed
repeat
scale
shopping
submit
through
value

33%
carrying
changing
collar
daddy
dealing
dispose
edge
fancy
fever
fitting
forwarded
illness
intended
kitchen
lung
mass
obliged
o'clock

permit
raised
rushed
score
shoulder
soldier
waist
waste
wonderful
zone

32%
acting
build
builder
changed
comfort
debating
delivered
desire
disposed
eleventh
enough
exchange
fourteen
froze
fullest
gum
greatest
homestead
independent
inspect
labor
lowest
needle
nicely
ninth
officer
oversight
owe
placed
providing
quiet
reaches
server
shone
simply
square
stuff
though
understood
voting
whether
31%
absent
await
beaten
clerk

crazy
earning
elect
expert
extra
finished
forgotten
formed
forwarding
hotel
item
I've
level
lining
lonesome
narrow
ninety
parlor
picnic
proof
recovered
returned
season
served
shipping
thousand
truly
upper

STEP 16—27%

30%
advice
barrel
broad
careful
caught
charged
cheaper
cheerful
credit
eager
else
enclose
enjoying
February
foolish
helped
invoice
nickel
nurse
plainly
provide
raising
recite
record
scare

sign
slight
struck
vacation
worry

29%

admit
alfalfa
answered
breakfast
checked
cherries
covered
dealer
enjoyed
explain
extend
German
laid
Latin
losing
pavement
per cent
prevented
proven
queer
raise
recent
recess
remembering
request
rough
sire
smooth
supply
temple
to-morrow
turned
unpaid
using
worse
yoke

28%

built
cheap
colored
consist
decline
delayed
fern
gain
haste
ideal
joined
ladies
locate
lovingly

middle
notice
passed
patent
phoned
pupil
putting
repair
saddle
stayed
studying
taught
taxes
touch
united
valued
voice
we'll

27%

addresses
aid
attend
blessed
booth
bridge
carefully
coasting
confined
contain
detail
entry
factory
furnishing
happened
holiday
including
instead
investment
largely
loose
ocean
respect
returning
ruin
secure
standard
statement
suffering
surprise
throughout
useful
vary
violin
zero

26%

aim
amounting

artist
beyond
bowl
closely
continue
contract
cure
delivery
dreadful
ease
explained
favor
force
gaining
gentleman
graze
health
hence
honest
improving
limit
married
preacher
properly
public
refund
serving
shock
spare
stamped
trouble
watched
wearing
wondering

25%

acted
amply
ankle
answering
balance
barley
blooming
captain
clothe
common
control
cough
crew
dairy
didn't
either
entering
excuse
forenoon
good-bye
greatly
instant

loan
offering
package
perfect
piano
problem
promise
rainy
recently
renewed
requested
stories
towel

24%

active
adjustment
billed
circus
cousin
cripple
dodge
figured
friendship
furnish
hasn't
hello
industry
inst.
interesting
lately
management
mention
model
obtained
ordered
owned
primary
prior
property
rapid
refuse
suitable
text
whose
wouldn't

STEP 17—21%

23%

advance
aren't
breaking
carried
cellar
contained
containing
explaining

formerly
freeze
gentlemen
group
guide
headquarter
interest
language
manager
message
pastor
postal
presented
slightly
sorrow
talent
treatment

22%

abstract
actor
animal
attending
bluff
boarding
dependent
earnest
enroll
entered
fare
firm
headache
healthy
pattern
publisher
rye
seldom
steady
studies
surface
term
transit

21%

adopted
against
agreeable
allow
amendment
attach
automobile
bass
believe
burden
chief
degree
desired
discovered
English

entertaining
entire
ere
etc.
except
flavor
following
hurried
improved
jury
maintain
method
owner
promised
represented
strict
suppose
tract
traveling
visited
wasn't
winner
written
you'd
yourselves

20%

addition
adjusted
advantage
advertised
alley
aware
beauty
cabinet
client
constant
convention
decided
deportment
deserve
direct
dwelling
enrolled
female
figuring
fitted
gained
growth
honestly
honor
increasing
limited
located
machine
missed
modern
northern

prompt
quoted
rapidly
receive
refreshment
rendered
replying
require
search
silence
situation
splendid
stopped
weigh

19%

advising
apply
argument
booster
cigar
confident
creamery
due
favorite
fortune
fuel
furnace
furnished
guest
handkerchief
husband
important
include
included
installed
ironing
jobber
minister
normal
obtain
planning
pleasant
promotion
protected
question
realize
refer
represent
required
satisfied
select
settlement
several
station
student
subject
support

tattooing
uniform
worrying

STEP 18—16%

18%

addressed
attain
avenue
avoid
butcher
cartoon
climate
companion
couple
described
employed
enrollment
example
final
information
intention
interested
lecture
lodge
mentioned
notion
offered
operated
popular
prepared
procured
Prof.
prospect
raiser
refused
republican
reserve
safety
semester
settled
slippery
spirit

17%

although
benefit
biggest
calm
carrier
comfortable
condition
democrat
desiring
effort
election
entertainment

expressed
 fault
 grocery
 hadn't
 human
 instructed
 ivory
 length
 local
 loyal
 nature
 piece
 prepaid
 produce
 really
 relation
 rifle
 shipper
 sweater
 weighed
 16%
 ambition
 average
 bargain
 blackberries
 consider
 considering
 contemplated
 conversation
 daughter
 decide
 depot
 directed
 direction
 director
 discontinued
 disgusted
 doesn't
 education
 entirely
 federal
 future
 garage
 grateful
 inquiry
 lbs.
 parties
 patron
 pertaining
 prayer
 promptly
 result
 route
 service
 shipped
 struggle
 surprised

theater
 tickled
 topic
 vacant
 we've
 15%
 advertisement
 advertising
 altogether
 appear
 based
 bracelet
 canned
 choice
 combination
 correct
 customer
 cute
 destroyed
 district
 drama
 entitle
 equally
 expired
 gasoline
 importance
 increased
 international
 madam
 manual
 measure
 meter
 misunderstanding
 moral
 mountain
 neglect
 neither
 object
 organized
 ourselves
 pardon
 perfectly
 president
 publication
 published
 purpose
 reasonable
 reduction
 regardless
 relationship
 renewal
 requesting
 resident
 resulting
 salesman
 satisfactory
 scarce

separate
 valley
 14%
 adventure
 advertise
 affair
 applied
 assist
 auntie
 barely
 basis
 candidate
 capable
 capital
 concluded
 conduct
 confer
 consideration
 continued
 copies
 course
 excited
 expecting
 factor
 fashion
 forced
 judge
 library
 manufacture
 operation
 parent
 product
 quote
 relative
 reputation
 Sabbath
 studied
 style
 tanning
 view
 weight

STEP 19—12%

13%

ache
 action
 advised
 appointment
 arrange
 braid
 certainly
 choosing
 considerable
 couldn't
 credited
 disposal

doubt
 exciting
 extended
 famous
 followed
 foundation
 freight
 general
 girlie
 graduating
 graduation
 heir
 inclined
 inspector
 location
 meant
 parcel
 period
 personal
 positive
 prefer
 production
 realizing
 salary
 sanitary
 satisfaction
 secured
 selection
 stomach
 success
 telegram
 telephone
 total
 welfare
 worthy
 12%
 advanced
 assure
 attention
 believing
 central
 coarse
 college
 complaint
 complete
 congratulation
 considered
 constantly
 contrary
 convince
 different
 duties
 easily
 elected
 equipment
 exam.
 existing

expected
failure
favorable
heretofore
inquire
invitation
justify
literary
niece
personality
preparation
prepare
priced
produced
regular
remedy
respectfully
responsible
sense
signed
strawberries
superintendent
transfer
X-ray

11%

ability
appeal
athletics
awful
calendar
capacity
cedar
concern
concert
conference
congratulate
correction
courage
curtain
duplicate
durable
employee
entertain
evidently
explanation
ghost
identify
increase
installment
institution
label
liquid
mere
opera
position
possess
possible

progress
reference
register
remembered
section
straight
surplus
themselves

10%

absolute
according
agency
appeared
applicant
arrived
attached
automatic
beginning
cement
commence
concerning
convinced
co-operating
corporation
crowded
data
develop
directly
engineer
envelope
exactly
exhibit
fabric
grammar
happiness
hesitate
hospital
indicate
influence
instruct
internal
investigation
justified
million
neglected
nephew
noticed
policy
presume
private
proposition
rec'd
reduced
registered
regulation
reliable
securing

suggested
treasurer
trial
valuable
volume
worried

STEP 20—8%.

9%

absolutely
account
administrator
arrive
assured
banquet
certain
choir
companies
composition
confirming
deliveries
democratic
deserved
distribution
earliest
elsewhere
establish
established
examination
extensive
factories
funeral
genuine
geography
hauled
honorable
improvement
neighborhood
nervous
obligation
organize
practice
quality
received
registration
reliability
relieve
selected
strength
subscriber
thesis
thorough
union

8%

absence
acre

arranged
article
assuring
attended
attraction
attractive
calves
canvass
carnival
cashier
Christian
cities
collect
connect
connected
consequently
council
current
deposit
description
design
disappointment
entitled
exception
favored
instance
involved
literature
machinery
merit
mortgage
ordinary
particular
preliminary
preparing
prevail
proceed
recommend
representation
requirement
resigned
satisfactorily
satisfy
secretary
signature
suggest
supplied
supplies
universal

7%

additional
allowed
application
assistant
attempt
authorized
brief

channel	submitted	similar	privilege
collection	supposed	society	process
completely	terrible	succeeded	prosperous
confidence	urge	university	readily
connection	were'n't	variety	regularly
co-operation	wholesale	vision	serious
cushion	STEP 21—6%	5%	social
dangerous	6%	accordance	subscription
debt	accept	acknowledge	successful
destination	accomplish	acquire	surgery
difference	agriculture	allotment	sympathy
division	announce	alumni	timothy
employer	assigned	anniversary	type
exact	assortment	anxious	usual
exceptional	ballot	attorney	
excitement	bulletin	available	STEP 22—4%
exercise	celebrate	awfully	4%
expense	circuit	bonus	acceptance
expensive	circular	citizen	accident
expression	collecting	commerce	acquainted
extreme	communication	committee	actual
feature	community	constitution	advancement
fraternally	compelled	contemplating	affectionately
furniture	confirm	conveniently	algebra
graduate	correspond	correctly	annual
hastily	correspondent	correspondence	appearance
illustrated	decrease	coupon	appointed
inducement	demonstrated	difficulty	appreciated
instruction	disagreeable	domestic	assignment
insurance	engineering	doubtless	assistance
introduced	error	effect	assume
legal	estimated	electrical	assurance
legislation	evidence	examine	blizzard
magazine	excess	exclusively	bureau
medicine	experience	fashionable	business
musical	fierce	federation	certificate
national	frequently	generally	character
notary	geometry	glorious	circulation
notify	gratitude	government	circumstances
occupied	guaranteed	humor	conclusion
operating	hustling	illustrating	connecting
opinion	imagine	immediate	conservatory
organization	junior	immediately	considerably
patient	knowledge	impossible	convenience
permanent	material	inconvenience	cordially
possibly	mental	inquires	crocheting
practical	merchandise	issue	customary
probably	merely	issued	decision
profession	neighbor	judgment	definitely
receiving	numerous	liable	development
reception	original	liberal	disease
reduce	planned	moderate	efficient
remembrance	quantity	notified	electricity
reservation	referring	occasion	enthusiasm
rural	remittance	official	epidemic
special	representative	politics	examined
straightened		principle	

excellent
executed
executive
exhausted
familiar
finally
generous
illustration
instructor
investigate
journal
materially
naturally
opportunity
personally
physician
practically
premium
principal
profitable
purchased
qualities
quotation
recommendation
referred
response
science
series
sincere
strictly
succeed
sufficient
superior
system
thoroughly
transportation
unusually
various

5%

accommodate
accordingly
activity
affidavit
approval
approved
arrangement
arrival
arriving
assessment
association

attendance
civics
convenient
cordial
corrected
definite
difficult
disappoint
discourage
efficiency
encourage
enormous
equipped
especially
examiner
exhibition
extension
favorably
guarantee
impression
instrument
interfere
librarian
manufacturing
practicing
presence
purchase
receipt
relieved
remained
sincerely
solicit
specificatton
stationary
supervision
territory
usually
vicinity
zephyr

STEP 23—2%

accompanying
accredited
actually
administration
admission
agricultural
announcement
anticipating

appreciate
assembly
auditor
authority
campaign
candidacy
commercial
commission
commissioner
compliment
consequence
construction
consultation
co-operative
crochet
demonstration
disappointed
enthusiastic
financial
gradually
grippe
immense
inferior
institute
introduced
lieutenant
mechanical
natural
necessity
originally
particularly
previous
professional
prosperity
regretting
rheumatism
source
substitute
supervisor
unnecessary
unusual

STEP 24—1%

accomplished
acquaintance
ambitious
analysis
annually

apparatus
appendicitis
appreciation
associate
associated
attitude
characteristic
chautauqua
confirmation
continuous
courteous
exceptionally
extremely
fundamental
Hallowe'en
individual
ingredients
leisure
majority
maturity
necessary
orchestra
pneumonia
politician
possibility
quantities
resource
responsibility
schedule
senior
soliciting
specially

STEP 25—0%

advisable
anticipate
appreciating
essential
foreign
fortunate
license
occasionally
peculiarities
phosphorus
physical
possession
scientific
tuberculosis

SECTION XI

THE IOWA SPELLING SCALE

GRADE IV

GRADE IV

STEP 1—100%

all
at
did
dog
me
thank
thing
to-day

hand
in
into
last
let
letter
may
mother
must
not
old

why
wind
your

96%

an
cake
cent
city
corn
down
five
food
free
going
gold
hard
her
how
live
looking
man
my
read
reader

had
hat
head
Jan.
longer
pay
place
poor
ring
river
same
send
some
summer
sweet
table
then
time
to-night
us
wish
work
working

94%

STEP 2—99%

and
are
big
book
but
day
dear
good
have
he
his
is
it
land

on
one
over
say
she
that
think
this
way
when
will
with

red
sand
south
tell
ten
we

am
bad
bed
bee
cannot
coat
end

STEP 4—96%

97%

apple
bell
butter
by
cook
door
eat
green
ice
if
left
love
made
make
milk

STEP 5—94%

95%

about
after
age
ago
baby
bank
bill
box
dark
date
dinner
do
doing
east
ever
face
foot
from
frost
gave

fast
faster
Feb.
for
has
him
just
kind
king
Monday
Nov.
of
papa
pig
play
real
ride
road
Sat.
seeing
silk
stove
sun

STEP 3—98%

as
away
be
boy
can
come
each
get
give
go
got

said
school
six
snow
state
Sunday
them
they
three
top
under

till
two
wall
where
wood
yet

STEP 6—92%

93%

along
ask
black
blank
call
child
clean
clock
could
cow
cut
eye
home
hot
however
inside
kiss
lake
life
light
Mr.
much
name
near
never
nice
number
Oct.
off
once
overcoat
playing
price
rich
room
store
thinking
toy
walking
well
who
winter
yard

92%

art
aside
back

ball
below
best
bird
blow
card
cat
clear
cold
cream
cup
far
farm
feet
found
fun
fur
hall
happy
hear
inch
joy
lady
large
lay
lived
lot
March
mark
more
mouth
move
no
note
October
oil
report
rest
saw
small
stage
stand
telling
thanking
told
town
want
week
yellow

91%

air
band
banker
bay
belong
beside
better

blue
came
coal
cover
fat
forget
game
girl
gone
hang
help
house
ink
July
June
keep
kid
looked
lost
low
nine
noon
open
page
park
pen
post
put
rain
reading
sat
sell
sent
show
side
singing
sister
so
sport
standing
stay
stick
supper
there
trip
very
water
while
win
window
yes

STEP 7—88%

90%

any
around

bunch
cap
car
case
country
delay
drive
fellow
fill
fine
gate
goldfish
grade
helping
hill
hog
horse
hour
hunt
late
long
meat
most
next
nut
outside
peach
people
pie
plow
saying
shop
snowed
song
spent
sunshine
take
took
walk
war
wash
went
whatever
wife
without
worker
write

bake
bear
deep
earth
fell
felt
flat
forgot
grass

89%

ground	mail	sugar	stood
hen	maker	taking	street
ill	market	tank	teacher
larger	meal	teaching	wild
leave	mine	trunk	wishing
lunch	money	wheel	85%
new	mud		adding
north	now	STEP 8—84%	also
oh	or		barn
older	our	86%	bean
part	pick	block	boat
paying	pin	body	camp
rock	rail	cattle	colder
sheep	rent	clay	dead
sir	rice	close	deal
snowing	row	count	don't
such	seat	crop	feed
taken	seen	dad	first
teach	set	dandy	fort
test	shipment	December	glass
the	son	die	January
weak	stop	dust	job
willing	tent	eight	know
within	train	farmer	leg
word	trust	fishing	many
would		flower	mate
yourself	add	gather	music
88%	added	hay	nobody
able	asking	heat	plan
afternoon	bat	holding	race
alive	because	inasmuch	reach
arm	become	master	recall
asked	being	mill	rust
banking	brand	Miss	sad
basket	bright	neck	saved
born	brother	nothing	seven
bring	calling	oats	shall
can't	class	order	short
care	danger	outfit	should
children	egg	oven	slow
dance	fire	pine	staying
dress	fish	point	talking
drop	form	porch	tenth
early	glee	pure	trying
even	lives	quick	upon
fall	luck	railroad	washing
finding	meet	round	watch
Friday	morning	sack	wheat
grand	myself	seed	wool
handy	net	sick	84%
here	paper	smart	above
hold	party	space	battle
hunting	plate	spot	been
landing	print	spring	birthday
law	sleep	stamp	bringing
loved	spell	starting	brought
mad	step	still	brown

catch
chair
church
forgive
four
glad
island
kill
kindly
lesson
longest
ma
other
ours
own
pink
pocket
pole
recover
sink
spelling
start
stone
than
too
true
Tuesday
warm
washed
won't
yearly

83%

April
behind
cared
carpet
cash
cooking
cost
counting
dearly
draft
every
farming
father
finger
forest
glove
great
grove
half
harvest
hole
kitten
lump
please
printed

remove
renew
rush
shoe
sixty
someone
sound
speaker
thin
thus
to
were
whenever
wide

82%

agree
anyone
Aug.
aunt
backing
became
blame
bought
boxes
buy
charge
Christmas
died
done
football
given
grandma
grant
gray
hardly
hearing
heating
held
hit
kinder
making
might
moved
paint
pass
passing
person
picking
rate
remark
right
safe
sit
soil
sold
sometime
sort

speak
talk
tip
twenty
unless
used
velvet
wet
white
worked
world

STEP 9—79%

81%

again
ahead
another
belonging
blood
boss
bother
cane
cleaner
clothing
contest
dearest
death
display
doctor
dresser
evening
fifty
fight
ford
hair
harder
having
homesick
inclose
later
lone
noted
patch
post card
renter
rose
shot
sin
soon
sum
swell
these
thick
thought
travel
weather

wonder
yesterday
80%

alone
always
apart
ate
bet
between
Bible
board
both
broke
change
cool
cord
covering
cross
drum
eve
everyone
fair
find
floor
follow
granted
herewith
high
I'm
inches
income
learned
less
listed
liver
load
maid
mailed
mean
nap
none
pa
pain
per
plum
rained
removed
shape
sight
slip
sorry
started
tie
wagon
wake
wanted

wear	list	saver	75%
young	lumber	sixth	
79%	marking	something	
asleep	matter	thereafter	
begin	nation	thousand	
behalf	nearly	tiny	
cleaning	neat	try	
darling	officer	which	
deed	otherwise	whole	
feeding	overlooked	worth	
fence	pound		
fit	printer	STEP 10—73%	
former	proper	76%	
garment	roof	afterward	
goat	sample	amount	
ha	sending	beg	
handed	seventh	bench	
handle	shade	bite	
invited	silver	calf	
its	size	clever	
jump	somewhere	depend	
leather	speed	dream	
mend	spending	drew	
pack	spoke	enough	
queen	stock	flour	
raining	sure	forth	
rank	Thursday	fresh	
riding	trade	gallon	
self	twice	grew	
shut	welcome	happen	
simple	wrote	hurt	
skate	77%	idea	
soap	brick	jar	
storm	brush	killed	
stranger	carry	met	
teeth	check	nose	
thankful	closed	painted	
use	colt	pools	
walked	damp	press	
wire	Dec.	pride	
78%	file	program	
across	friend	prove	
beat	garden	renting	
belt	goose	sash	
burn	grain	selling	
called	himself	Sept.	
cheer	labor	September	
cloth	lace	steam	
club	leader	their	
coming	member	ticket	
company	miss	tire	
dozen	only	unable	
fail	pencil	understanding	
grandfather	posted	wedding	
hundred	printing	wise	
largest	ready	wishes	
lift	rug	woven	
		bit	
		blew	
		branch	
		chart	
		chop	
		closer	
		crib	
		does	
		dollar	
		drug	
		everybody	
		glasses	
		heard	
		holder	
		I'll	
		intend	
		keeping	
		kindest	
		liberty	
		lovely	
		merry	
		mighty	
		month	
		Mrs.	
		need	
		newspaper	
		office	
		pair	
		picture	
		pillow	
		proud	
		provide	
		rack	
		rented	
		rip	
		rolling	
		rubber	
		scout	
		seem	
		seventy	
		shortly	
		smaller	
		soft	
		steel	
		stunt	
		team	
		treat	
		74%	
		act	
		ans.	
		anyway	
		bottle	
		chance	
		chicken	
		cotton	
		fact	

farther
field
folder
gladly
guess
heavy
herself
joke
kisses
leaves
match
mostly
news
November
ocean
oldest
ordering
phone
post office
quart
rabbit
reached
rule
shame
sis
sock
somewhat
tend
those
tile
together
trace
track
twelve
uncle
understand
voter
west
witch

73%

almost
anything
awhile
building
coffee
county
dread
dressed
easy
enter
everything
failed
front
fruit
grown
heap
inclosed

inspect
iron
likewise
payment
peace
pleased
remain
returned
scrap
seal
spend
study
temple
vote
wanting
whereby

72%

acting
agent
anywhere
army
classes
cleaned
content
dare
deliver
drill
fear
getting
gift
gown
improve
indeed
kindness
maple
o'clock
odd
planted
postage
protest
providing
pump
roll
seemed
shed
sore
thread
ton
township
turn
wage

71%

answer
ashamed
bid
branches
build

bushel
cast
center
discount
during
eighty
elect
fee
feeling
folk
froze
funny
gain
hate
household
lame
latter
least
living
loaded
mailing
moment
moving
ought
packed
partly
pending
prevent
pull
render
return
rough
saving
sickness
slide
stated
tested
thirty
trusting
visit
wished

70%

anyhow
bog
booklet
coast
copy
corner
depending
enclose
filled
flesh
formed
itself
junk
learn
main

meeting
named
noise
oblige
plain
raised
ranch
reason
repair
rushed
talked
trained
won
wrong
Xmas

STEP 11—66%

69%

afraid
among
Ave.
badly
began
brain
candle
cloudy
court
dated
drilling
family
finish
fourth
French
gee
grind
handling
higher
hoped
kitchen
leaf
mistake
nearer
nicely
nor
orange
past
perfect
range
sale
settle
sewing
snap
strongly
suit
title
withdrew

writer	joined	65%	message
zone	lighting	absent	mountain
68%	locate	before	phoned
broad	lung	bugs	picnic
broken	meantime	builder	played
busy	mind	chairman	prize
cause	needle	cheap	raising
demand	nurse	coin	shipping
enjoyed	obliged	colored	shoulder
filling	payable	contain	shown
forward	plenty	delivered	strike
globe	pretty	devoted	treated
greater	slipper	dose	until
greeting	third	frame	valued
growing	through	fully	weekly
health	turkey	gland	writing
hers	value	grit	zero
kept	western	handled	63%
knew	wonderful	highest	auto
knowing	66%	hoping	await
known	afloat	hurry	checking
laugh	all right	inviting	delighted
letting	beaten	learning	edge
perhaps	chain	leaving	excuse
placing	chose	lowest	feeder
poorly	coy	ordered	figure
powder	dispose	painter	finest
raw	enjoy	parlor	fitting
respond	fancy	present	handsome
Saturday	favor	produce	hare
says	fifteen	retail	helped
since	frankly	serve	ivory
stating	gas	share	mister
strongest	history	single	monthly
waist	joyful	sooner	opened
women	lie	square	pearl
worm	liked	taught	penny
67%	lucky	tax	reaches
already	membership	training	regard
August	nerve	understood	sitting
beef	opening	weary	steady
bottom	owned	64%	waiting
changed	packing	breakfast	youth
changing	power	chapter	
cottage	proved	closing	STEP 12—58%
dealing	provided	earning	62%
dice	remind	extent	birth
expert	spread	extra	breaking
express	stair	fix	chill
few	that's	freeze	chum
haven't	throw	frozen	contract
helpful	vacation	hotel	cooler
hereafter	voice	inclosing	cough
housekeeping	waited	inform	cousin
including	you'll	informed	Dr.
invite		join	enclosed
		lamb	

explain
fifth
fitted
forwarding
greatest
hardware
herein
knot
level
manage
painting
quickly
reaching
refuse
rod
score
station
stuff
thereof
to-morrow
wait
workmanship

61%

blessed
charming
cheerful
clearly
dairy
dirty
disposed
duty
extend
friendly
insist
located
loud
lower
piano
reply
sheet
showed
stamped
subject
though
Tues.
visited
worse

60%

adjust
advise
awaiting
Bro.
built
checked
color
comply
direct

ease
improved
intended
invoice
listen
lonesome
loss
mamma
mass
measure
middle
nature
offering
owe
rapid
recovered
repeat
retain
scare
setting
settlement
sew
skating
tread
tried

59%

anybody
appear
capital
caught
covered
crowd
daughter
exchange
fixed
following
force
forwarded
headquarter
hence
limb
loving
manner
namely
pattern
pavement
per cent
performed
placed
proven
quit
quite
record
request
requesting
respect
woman

58%

address
agreed
base
carried
caused
coasting
collar
comfort
cure
damage
delightful
detail
fever
fourteen
guide
habit
illness
I've
ladies
language
linen
lovely
narrow
needing
nineteen
obtain
organ
season
suffering
Thanksgiving
throat
united
voting

57%

answering
beet
beyond
bridge
crazy
crew
deeply
delayed
eager
eighteen
eleventh
finished
further
homestead
honest
husband
latest
lose
married
misses
needed
prevented

profit
public
shock
surprised
taxes
turned
waste
watching

56%

actor
although
baking
boiler
buying
cheaper
confined
contained
daily
dancing
dealer
feel
figured
foolish
furnish
German
happened
I'd
improving
instead
movement
package
quarter
refund
regarding
reported
saddle
sign
slept
tired
useful
Wednesday
whom

55%

amounting
answered
backed
boarding
buggy
bulk
charged
choose
crippled
debate
decline
discovered
enjoying
explained

fairly
gotten
grip
industry
isn't
lecture
neglect
nevertheless
notice
plainly
pleasure
production
properly
regret
require
suitable
surface
worst

STEP 13—50%

54%

aid
aim
barrel
begun
correct
directed
except
flavor
friendship
gaining
gravy
include
intention
loan
obtained
owing
permit
raise
second
seller
spare
tight
watched
winner
yourselves

53%

adopted
bigger
bowl
buyer
continue
creep
cutting
desire

dodge
fund
future
germ
holiday
insert
ninth
presented
primary
proof
ribbon
scale
struck
supply
suppose
wearing
wouldn't
yoke

52%

abstract
advance
ample
chief
debating
else
entering
fuel
furnishing
headache
hello
item
likely
machine
maybe
model
oversight
passed
perfectly
postal
requested
secure
seldom
stayed
studies
submit
therefore
treatment
trouble
unpaid

51%

action
attend
balance
beauty
coach
daddy

enrolled
excited
film
fullest
graze
investment
length
maintain
outlined
Prof.
property
rainy
remained
remembering
renewed
server
weigh
worry
written

50%

awful
careful
clerk
closely
conduct
entertaining
entry
factory
February
loyal
minute
northern
noticed
pupil
rapidly
served
sleet
standard
statement
truly
using
wondering

49%

advice
alley
ankle
biggest
burden
butcher
captain
consist
containing
delivery
election
example
expressed

forenoon
garage
gentleman
greatly
lbs.
loose
notion
potatoes
promised
queer
quoted
shopping
silence
sorrow
surprise
throughout
trial
upper
valley

48%

adjustment
animal
avenue
aware
break
calm
central
concluded
degree
deportment
dreadful
either
fern
filing
gasoline
hereby
judge
lately
niece
parcel
prospect
putting
recently
recess
recite
returning
settled
skirt
smooth
splendid
stories
taste
topic
traveling
visiting

47%
addition
admit
aren't
cabinet
cherries
due
fare
lodge.
patent
pleasant
quiet
strict
touch
toward
uniform
whether

46%
account
acted
active
addresses
attending
bass
bluff
booster
button
climate
clothe
credit
enclosing
entered
entertainment
forty
hasn't
honor
increasing
mention
pertaining
progress
promotion
refused
regulation
relationship
rye
satisfied
service
several
sire
student
studying
text
tickled
towel
weighed
we'll

we've
whose
worried
worthy

STEP 14—42%

45%
against
artist
companion
considering
couple
exciting
fault
figuring
lining
prompt
question
studied
weight
44%
automobile
booth
carefully
carrying
conversation
destroyed
final
growth
handkerchief
honestly
human
independent
modern
neighborhood
prepaid
problem
replying
required
ruin
serving
shipper
soldier
union

43%
advertised
arrive
average
control
debt
depot
decision
earnest
effort
entirely

ere
explaining
forced
furnace
instant
jobber
jury
mentioned
normal
pardon
parent
popular
rendered
reputation
term
utmost

42%
allow
circus
complete
convention
duties
English
expected
fashion
gentlemen
grocery
included
information
laid
location
recent
shipped
slightly
sweater
view
violin

41%
addressed
apply
blooming
condition
contemplated
dependent
different
drama
dwelling
elected
entertain
extended
famous
favorable
ideal
important
interested
liquid

losing
manufacture
minister
missed
object
parties
piece
preparing
publisher
reduced
refreshment
relation
represent
result
rifle
scarce
situation
worrying

40%
agreeable
barley
blackberries
catalogue
creamery
desired
desiring
expired
gained
healthy
hospital
inquire
local
offered
pastor
preacher
prepare
promptly
realize
reduce
remember
running
struggle
vary

39%
arrange
believe
candidate
carrier
comfortable
common
complaint
constant
director
factor
failure
female

group
haste
installed
ironing
machinery
manager
operated
product
promise
protected
remit
reserve
success
supplied
you'd

38%

advanced
alfalfa
bargain
billed
cement
cigar
confident
convince
curtain
describe
didn't
employed
firm
forgotten
limit
lovingly
manual
method
really
resulting
simply
slippery

STEP 15—34%

37%

ache
acre
argument
attention
choice
current
cute
decide
deserve
discontinued
doesn't
domestic
exact
exactly
feature

hurried
inclined
interest
priced
produced
quote
register
republican
talent
telephone
tract
transit

36%

advantage
adventure
advising
avoid
calves
cellar
considered
couldn't
courage
data
easily
entitle
formerly
furnished
increased
international
Latin
limited
management
owner
prepared
receive
select
supposed
transfer
treasurer

35%

attach
attached
crowded
decided
doubt
expecting
factories
fierce
guest
hadn't
madam
position
prayer
private
represented
resident

respectfully
strawberries

34%

appeal
awfully
capable
certain
cities
college
consider
continued
convinced
deserved
foundation
instruct
instructed
mere
moral
neglected
neighbor
prevail
procured
reduction
reliable
section
separate
source

33%

bracelet
channel
composition
congratulate
customer
democrat
education
enroll
entire
favored
happiness
importance
improvement
library
period
realizing
search
secured
securing
slight
tatting
total
vision

32%

adjusted
advertise
applied
arranged

arrived
braid
district
exam.
general
geography
increase
largely
opera
opinion
positive
published
satisfactory
signed
style
succeeded
themselves
valuable

31%

accomplish
advertising
attain
believing
calendar
combination
constantly
corrected
dangerous
disgusted
followed
graduation
hauled
heir
liberal
million
misunderstanding
neither
ninety
operation
organized
ourselves
personal
raiser
regardless
regular
remedy
selected
stomach
straight
vacant

STEP 16—27%

30%

according
advancement
advised

appointed
appointment
attended
automatic
banquet
cartoon
connected
connecting
copies
corporation
credited
directly
excess
exercise
favorite
federal
funeral
inspector
inst.
moderate
nickel
particular
patron
proceed
publication
reference
reservation
route
suggested
theater
wasn't

29%

accordingly
affair
altogether
ambition
amendment
benefit
cashier
collect
concern
connect
course
etc.
examined
expression
ghost
humor
instance
internal
justified
literary
medicine
planning
refer
system
wholesale

28%

appeared
approved
beginning
Christian
commence
correction
correctly
direction
earliest
exception
hesitate
interesting
nervous
prior
purpose
representation
requirement
safety
strength
submitted
transportation

27%

auntie
based
companies
conference
contrary
democratic
develop
difference
extensive
fortune
gratitude
issue
legal
manufacturing
nephew
president
presume
registration
resource
Sabbath
satisfy
spirit
superintendent
support
telegram

26%

attraction
barely
cedar
coarse
concerning
concert
confirming

deposit
engineering
freight
good-bye
graduating
issued
notify
obligation
personality
prefer
quality
reasonable
relative
remembered
rural
sense
stationary
stopped
supplies

25%

advertisement
author
canned
confer
disposal
doubtless
effect
evidently
influence
inquiry
junior
liable
meant
musical
organize
permanent
purchase
reception
selection
semester
serious
society
strictly
volume

24%

assist
ballot
employer
examine
existing
generous
heretofore
imagine
impossible
justify
national
process

resigned
salesman
secretary
series
suggest
tanning
X-ray

STEP 17—21%

23%

absence
absolute
arriving
article
client
collecting
connection
deliveries
difficulty
engineer
enrollment
experience
frequently
furniture
graduate
grateful
label
occupied
possible
possibly
practicing
purchased
quotation
receiving
registered
salary
subscription
succeed

22%

accent
athletics
business
choir
collection
compelled
consequently
consideration
co-operating
coupon
demonstrated
design
durable
envelope
equipment
explanation
fabric

genuine	supervision	planned	15%
hustling	surplus	probably	agency
inquires	type	relieve	allotment
installment	19%	representative	announcement
insurance	appearance	responsible	assignment
investigate	application	universal	assistance
involved	arrangement	17%	assuring
satisfaction	attempt	administrator	attorney
timothy	choosing	conclusion	electricity
21%	circulation	congratulation	encourage
actual	citizen	description	exceptional
admission	considerably	disappoint	extreme
assured	correspond	estimated	familiar
celebrate	crochet	excellent	generally
construction	difficult	government	geometry
decrease	distribution	inconvenience	grippe
discourage	equally	indicate	instructor
establish	excitement	inducement	instrument
established	expensive	librarian	literature
hastily	federation	notified	notary
investigation	numerous	operating	ordinary
mental	preliminary	presence	possess
merchandise	quantity	proposition	practical
patient	relieved	prosperous	previous
policy	straightened	readily	profitable
practice	subscriber	received	referring
qualities	sympathy	regretting	special
reliability	urge	terrible	surgery
renewal		weren't	usual
sanitary	STEP 18—16%	16%	14%
signature		alumni	absolutely
variety	18%	arrival	additional
20%	ability	assortment	auditor
allowed	accident	assure	blizzard
assistant	agriculture	attractive	completely
basis	algebra	available	consultation
brief	announce	capacity	expense
carnival	assembly	circular	foreign
commerce	assessment	crocheting	fundamental
confidence	attendance	electrical	gradually
cushion	authorized	entitled	honorable
destination	certainly	epidemic	mortgage
elsewhere	consequence	evidence	occasion
examiner	conservatory	exclusively	quantities
identify	considerable	fashionable	thesis
instruction	convenient	grammar	sincere
introduction	council	individual	STEP 19—12%
judgment	decision	invitation	13%
legislation	development	merely	applicant
magazine	examination	rec'd	association
natural	girlie	remembrance	assume
politics	inferior	remittance	canvass
preparation	institution	successful	communication
receipt	introduced	supervisor	constitution
regularly	knowledge	territory	co-operative
superior	meter	welfare	

cordial
demonstration
disagreeable
duplicate
employee
finally
illustrated
impression
necessity
organization
premium
profession
senior
social

12%

acquainted
agricultural
anxious
bulletin
compliment
co-operation
disease
error
executed
exhibit
glorious
majority
merit
naturally
orchestra
similar
university
unusually

11%

acquire
administration
anniversary
confirm
contemplating
correspondent
customary
disappointed
disappointment
enormous
exhausted
favorably
illustrating
immense
material
opportunity
particularly

physical
privilege
recommend
specification
thorough
usually

10%

assurance
bonus
circumstances
commercial
enthusiastic
executive
fraternally
guaranteed
journal
possession
practically
recommendation
response
satisfactorily

STEP 20—8%

9%

accompanying
accomplished
activity
advisable
affectionately
annual
approval
assigned
associated
certificate
circuit
equipped
extension
illustration
immediate
leisure
mechanical
principle
substitute

8%

acceptance
accordance
annually
authority
campaign
character
civics

committee
continuous
definite
definitely
fortunate
Hallowe'en
immediately
interfere
occasionally
original
principal
prosperity
tuberculosis
unusual

7%

actually
affidavit
analysis
appreciated
appreciation
commissioner
conveniently
cordially
exhibition
extremely
institute
materially
necessary
official
originally
personally
phosphorus
pneumonia
possibility
referred
soliciting
unnecessary
vicinity
zephyr

STEP 21—6%

6%

accommodate
acknowledge
ambitious
appreciate
candidacy
confirmation
correspondence
enthusiasm
especially

guarantee
maturity
responsibility

5%

accredited
attitude
convenience
courteous
efficient
essential
exceptionally
physician
professional
science
specially
sufficient
various

STEP 22—4%

4%

acquaintance
appreciating
associate
chautauqua
commission
community
financial
ingredients
license
rheumatism
solicit
thoroughly

3%

anticipating
bureau
efficiency
lieutenant
politician
schedule
sincerely

STEP 23—2%

appendicitis

STEP 24—1%

anticipate
apparatus
peculiarities
scientific

STEP 25—0%

characteristic

SECTION XII

THE IOWA SPELLING SCALE

GRADE V

GRADE V

STEP 1—100%

all	corn
and	could
at	dear
baby	did
book	dinner
but	door
come	dress
day	each
good	every
got	fast
hand	fish
have	five
he	game
her	go
his	going
how	happy
is	hard
it	home
let	hunt
lot	in
may	July
old	kind
read	lake
run	land
say	last
see	letter
this	like
three	little
up	long
we	look
what	love
will	make
wish	man
with	May
wood	Monday
year	mother
your	must
	my
	not
	Nov.

STEP 2—99%

age	on
are	out
ball	over
barn	place
be	play
big	rich
boy	said
by	seven
call	she
came	ship
can	snow
card	state
	tell

thank
that
thing
think
top
under
was
way
winter
work

STEP 3—98%

add
am
away
bank
bell
bill
box
bring
cake
calling
car
care
cash
clear
dark
do
dog
east
feet
food
foot
from
gate
gold
had
hay
head
help
however
ice
if
inside
into
just
day
men
much
nine
oil
one

park
saw
saying
school
show
silk
so
south
spend
spring
store
taken
ten
the
them
then
train
walking
wall
why
would
yet
yourself

STEP 4—96%

97%

about
after
ago
along
apple
asking
back
bed
bee
blow
brother
butter
city
class
clean
count
cow
cut
dance
date
down
earth
end
fall
farm
fat

fell	time	half	working
fire	to-day	hall	yard
free	to-night	heat	
gave	two	hen	STEP 5—94%
get	us	hill	95% —
give	very	hold	added
grade	walk	inch	afternoon
has	wash	joy	art
hat	well	king	asked
hot	whatever	large	backing
ill	where	late	banking
ink	white	lost	bay
June	who	mail	bean
kindly	within	market	below
left	world	mean	beside
light	you	mill	black
live	96%	move	blank
longer	adding	note	boat
looking	an	number	brick
made	as	our	cannot
milk	bad	pine	change
more	became	point	coal
most	best	poor	cream
Mr.	better	print	cup
night	bird	rain	dead
north	block	reader	Dec.
nut	blue	reading	eat
off	bright	real	Feb.
once	cap	road	felt
outside	case	same	filling
page	cat	sell	finding
papa	cent	short	Friday
pay	chair	side	frost
pig	children	sister	girl
put	coat	spell	glass
red	cold	spelling	grass
rent	cook	standing	ground
river	cover	stone	grove
rush	covering	summer	handy
sand	dad	Sunday	him
seen	delay	table	hog
send	doing	thanking	hour
sheep	dust	there	house
should	early	till	hunting
sick	ever	toy	Jan.
six	face	tree	kid
some	farming	used	landing
stand	faster	want	law
stay	fellow	war	lived
such	fill	washing	low
sun	for	water	mad
sweet	found	went	March
take	fun	west	meat
tent	glad	wheat	morning
they	goldfish	when	mud
thinking	grand	wide	myself
	green	window	

name	cross	slow	list
near	darling	son	liver
net	deep	song	lives
never	died	soon	load
nice	don't	sport	loved
of	drive	stamp	luck
oldest	even	stated	mark
paper	eye	stick	master
part	far	stop	mate
pen	fight	swell	money
picture	first	teaching	mouth
playing	fishing	teeth	new
price	fit	ticket	noon
ready	forget	trip	nothing
rest	glove	upon	oats
rice	gone	wake	oh
ride	great	warm	painted
rock	keep	wife	pass
Sat.	kiss	willing	post
sent	lady	worked	postage
shoe	larger	yellow	press
singing	leader	yes	quick
sink	leave		rule
sleep	leg	STEP 6—92%	sack
sound	life	93%	saved
start	longest		seed
storm	looked	act	seeing
stove	ma	alone	sending
teacher	meal	any	set
telling	mine	anyone	seventy
thin	no	aside	silver
took	now	bake	sir
unable	Oct.	become	sit
were	older	belt	small
wind	open	board	soft
wise	or	body	soil
without	overcoat	boxes	spending
worker	party	camp	spent
	pick	can't	stage
94%	pie	child	started
able	pin	colder	staying
above	proper	cool	still
ahead	rail	crop	stood
air	reach	done	sugar
also	remove	eight	supper
arm	report	father	teach
around	room	flat	test
ask	rose	fort	town
banker	round	four	walked
bat	rust	goat	week
bear	sad	hair	whenever
because	safe	handed	while
behind	sat	handle	yearly
belong	shall	hear	zone
contest	sin	himself	92%
cost	slip	inches	another
country		lesson	April

army
ate
basket
birthday
cattle
check
cleaning
clock
close
December
die
drop
easily
egg
fence
fine
forgot
form
fur
grant
heating
helping
job
jump
kill
kinder
lumber
next
only
other
pack
packing
paying
people
picking
pillow
pink
planted
plate
please
plow
pocket
pound
pride
printed
railroad
recall
renter
seat
self
September
shipment
shop
sickness
smart
snowing

sold
spot
talking
these
told
trust
twenty
western

91%
alive
aunt
band
beat
been
being
branch
bringing
buy
cane
charge
chart
church
clay
coffee
danger
deal
deed
depend
dream
enough
feed
fifty
friend
given
ha
hardly
heavy
high
hole
homesick
horse
January
keeping
lame
largest
lunch
mailed
matter
meet
mostly
moved
music
nobody
order
oven
own

paint
pump
queen
rubber
snowed
soap
something
sorry
speak
sum
sunshine
taking
talk
tenth
than
tip
tire
ton
true
trunk
try
Tuesday
unless
wanted
wanting
washed
welcome
wheel
win
wire
wishing
wonder
write ✓

STEP 7—88%

90%

Aug.
blood
both
brought
brush
bunch
burn
called
catch
chum
classes
club
content
county
dearest
dresser
farmer
fear
file

flower
garden
gift
glasses
growing
hang
harder
harvest
here
hit
holding
income
itself
kindness
kitten
know
lace
listed
lump
marking
nation
nearly
neck
none
noted
November
office
ours
outfit
person
pure
range
rank
rate
recover
remain
remark
rented
retain
return
shame
shape
sort
space
station
steam
study
tank
thereafter
those
thus
trained
use
wagon
wet
wild

wool	protest	lift	finger
word	pull	lovely	ford
worth	race	membership	forgive
yesterday	rained	met	frame
	render	newspaper	goose
89%	roof	nose	grandma
acting	row	October	grew
booklet	settle	passing	hearing
born	shortly	per	herself
bottle	shut	plan	inasmuch
bought	sixty	raw	learned
brain	size	right	learning
brand	speaker	ring	leaving
cared	stranger	sale	Miss
carry	street	saving	miss
center	strongest	selling	month
chop	suit	Sept.	noise
closed	sure	skate	orange
coast	temple	snap	otherwise
cooking	thick	spoke	pleased
dated	travel	starting	posted
discount	trying	step	prevent
display	understand	stunt	printer
dollar	watch	team	quart
dozen	weak	thankful	raised
drug	woven	thought	removed
drum	young	tie	respect
duty		township	roll
everything	88%	track	seventh
express	agree	turkey	share
fact	bet	uncle	shot
fail	blame	understanding	sight
few	cheer	united	someone
filled	Christmas	vote	somewhere
gather	closer	wrote	stock
getting	cord		tend
happen	counting	87%	tile
hate	enter	across	title
hurry	evening	again	trace
invite	everyone	agent	treat
leaves	fair	always	trusting
less	finish	apart	
maid	follow	asleep	
mailing	football	awhile	
maker	force	Bible	STEP 8—84%
many	forest	boss	86%
might	former	bother	almost
news	front	build	amount
painter	funny	calf	answer
partly	garment	charming	anything
patch	grain	chicken	begin
peach	gray	cloth	behalf
phone	grown	coin	bid
plenty	holder	crib	bite
pole	hoped	dandy	cleaner
post card	I'm	family	coasting
printing	indeed	feeling	cotton
			death

deliver
demand
doctor
draft
eve
exchange
failed
figure
finished
gown
grandfather
hardware
held
history
improve
knew
learn
making
match
moving
named
need
pain
peace
pending
poorly
power
rack
raining
reaching
renew
renting
rug
sample
scout
sock
tested
thereof
thread
too
twice
value
velvet
wear
won

85%

absent
anywhere
belonging
building
carpet
cast
cause
caused
chance
contain
cottage

court
damp
dare
dearly
depending
dressed
drew
drill
edge
greatest
grind
heap
honest
household
inform
invited
island
killed
kisses
labor
leather
locate
lower
nature
overlooked
pa
painting
pair
plum
porch
present
reported
riding
rolling
Saturday
seem
sometime
third
thousand
Thursday
treated
turn
waited
whole
wishes
withdraw

84%

afraid
August
auto
battle
bench
between
branches
brown
bushel
chill

clothing
cloudy
company
dispose
does
enjoy
fancy
feeding
folder
forth
frankly
fresh
glee
having
heard
higher
hundred
I'll
improved
inclosed
iron
joke
least
loaded
lone
lonesome
loud
lung
meantime
member
merry
mighty
monthly
nap
nicely
produce
proud
provide
raise
record
repair
request
rod
shade
sheet
showed
simple
since
smaller
somewhat
stair
strongly
taxes
their
tried
weather
wished

83%

active
address
ans.
badly
beet
beg
bit
broken
bugs
builder
candle
changed
clever
colt
conduct
copy
drilling
eighteen
excuse
extent
field
formed
gladly
hereafter
hotel
inclose
lighting
located
lucky
maple
meeting
middle
northern
offering
packed
payment
pearl
plain
prize
ranch
respond
returned
rough
scale
second
simple
single
sixth
slipper
sooner
thirty
to
treatment
vacation
visit
witch
won't

writing ✓	twelve	setting	charged
youth	understood	spread	climate
zero	voter	square	comfort
82%	waiting	steel	comply
action	weary	subject	cousin
afterward	wedding	talked	dealer
already	whereby	tread	dealing
among	women	valley	deeply
boiler	wonderful	voice	deserve
broad	yoke	waist	dose
broke		which	expert
cleaned		worm	extend
cure	STEP 9—79%	80%	feeder
decline	81%	afloat	fifth
delighted	advance	anyway	foolish
eighty	anyhow	artist	frozen
elect	blew	breakfast	germ
everybody	button	bridge	guess
flesh	buyer	cheap	homestead
floor	caught	corner	informed
froze	central	cutting	judge
fruit	chain	delivered	listen
gaining	clearly	directed	main
globe	damage	English	moment
granted	daughter	fixed	obtained
herewith	degree	greater	penny
instead	enclosed	greatly	postal
joyful	find	health	power
kindest	finest	hers	product
lamb	flour	hurt	public
leaf	folk	junk	reached
liberty	fuel	likewise	reason
lie	gallon	mass	recovered
living	greeting	mend	remind
mountain	haven't	needed	season
Mrs.	helped	needle	serve
neat	hence	nevertheless	speed
obtain	later	notice	stamped
ocean	laugh	o'clock	student
officer	mind	ordering	suitable
pencil	mister	pools	throw
pretty	nearer	post office	trouble
program	nor	potatoes	turned
prove	opening	raising	union
proved	outlined	repeat	upper
provided	payable	sew	valued
question	phoned	shed	visited
requested ✓	played	strike	wait
rip	prevented	studies	whom
rushed	production	though	wrong
scare	quickly	trade	78%
several	reduce	79%	answering
stuff	refuse	amounting	beef
throat	retail	before	chapter
through	seal	bottom	crazy
tiny	seemed	carried	daily

dancing
dread
election
factory
farther
fix
fourth
fully
gas
German
grit
handling
idea
inspect
isn't
jar
kitchen
knowing
language
latest
latter
liked
message
package
perhaps
reply
returning
sash
score
skating
slide
steady
that's
tired
visiting
we'll
worse

77%

acted
blessed
busy
cheerful
coming
contract
couple
direct
eleventh
enclose
excited
explain
extra
fashion
favor
gain
habit
handsome

herein
insist
intend
joined
lbs.
now
nerve
nurse
odd
opened
ought
past
placed
pleasure
proven
rabbit
require
tax
weekly
weigh
weight
woman
Xmas.

STEP 10—73%

76%

abstract
answered
bigger
built
bulk
capital
cheaper
checked
clerk
cough
dairy
detail
dodge
eager
else
figured
freeze
furnish
grip
headache
housekeeping
intended
join
kept
lecture
loving
machine
married
mistake

movement
perfect
permit
plainly
primary
reaches
scrap
sis
training
truly
until
watching

75%

although
animal
appear
ashamed
Ave.
beaten
begun
birth
changing
checking
coach
creep
ease
factor
forty
fourteen
friendly
gained
gland
helpful
its
level
linen
manage
notion
object
ordered
organ
owing
parlor
providing
ribbon
slept
sorrow
stating
term
together
touch
useful
view
worst
writer

74%

acre
actor
anybody
attend
backed
barrel
beauty
beyond
buying
captain
color
coy
enclosing
except
explained
further
gee
handled
highest
improving
inviting
ivory
known
length
local
measure
million
misses
needing
owner
picnic
profit
rapid
recite
relation
relationship
section
secure
silence
skirt
soldier
sore
statement
taught
throughout
to-morrow
towel
unpaid

73%

agreed
await
chairman
closing
collar
cooler

covered
deportment
disposed ✓
dreadful
during
enjoyed
expected
famous
French
furnished
gasoline
hare
healthy
including
investment
letting
lodge
lonely
oblige
perfectly ✓
piano
property
prospect
quarter
regulation
saddle
saver
settlement
shock
submit
Thanksgiving
traveling
voting

72%

apply ✓
baking
base
bog
careful
cigar
correct
crowd
curtain
devoted
discovered
dwelling
earning
elected
enjoying
entering
feel
fever
fifteen
film
flavor
forward

holiday
hospital
inclosing
include
intention
invoice
ladies
namely
owe
parties
per cent
promised
putting
quit
recess
reduction
regard
reserve
sewing
shipping
shoulder
stayed
supply
uniform
wage

71%

addresses
advise
alley
barley
began
break
carrier
cities
containing
continue
delayed
desired
dice
dirty
fitting
foundation
furnishing
gentleman
handkerchief ✓
hoping
human
husband
illness
increasing
knot
likely
limb
loyal
owned
pavement
pupil

rainy
remember
says
serving
sleet
suffering
Tues.
winner
workmanship

70%

admit
advice
awaiting
blooming
bluff
booth
buggy
butcher
delightful
desire
earnest
explaining
fullest
furnace
graze
happened
loss
model
neglect
nineteen
parent
placing
presented
problem
progress
quoted
reduced
rye
scarce
seller
served
server
spare
sweater
Wednesday ✓
we've
wouldn't
you'll

STEP 11—66%

69%

according
aid
balance
calm
cement

couldn't
delivery
director
district
doubt
Dr.
example
expressed
fitted
fortune
forwarding
geography
grocery
headquarter
important
improvement
insert
I've
lowest
manner
minute
normal
obliged
quite
recently
refreshment
refused
sign
sitting
surface
topic
waste
watched
worry
yourselves

68%

adjust
advising
ample
aware
believe
chose
common
condition
consist
contained
credit
employed
fairly ✓
forenoon
forgotten
friendship
fund
hurried
I'd
inquire

jury
location
performed
prepaid
properly
requesting
result
settled
shown
stories
struck
success
wasn't

67%

adjustment
boarding
circus
companion
dangerous
fault
fern
figuring
forwarded
included
information
ironing
method
promise
recent
regret
remained
simply
standard
wondering

66%

account
addressed
attending
breaking
burden
colored
debate
dependent
expecting
February
ideal
industry
maybe
modern
neighbor
noticed
passed
pertaining
private
protected
queer

rapidly
remembering
renewed
seldom
suppose
utmost
written

65%

ache
aim
attention
closely
convention
current
debating
due
education
entirely
entry
fare
hadn't
instruction
item
loan
neglected
pattern
preparing
prompt
promptly
running
search
select
text
tickled
tight
wearing
weighed

64%

allow
arrive
avenue
average
bowl
cherries
chief
collect
crippled
domestic
entitle
fee
hereby
interested
minister
offered
ourselves
prepare

produced
required
shipper
smooth
surprise
taste
therefore
toward
tract
using
worthy

63%

addition
against
ankle
complaint
constant
depot
didn't
direction
directly
entered
entertainment
exciting
following
general
gentlemen
gotten
group
hasn't
hello
honor
interest
period
prayer
replying
separate
struggle
tanning
violin

STEP 12—58%

62%

ability
advanced
avoid
blackberries
carefully
creamery
daddy
describe
duties
entertain
entire
favorable

followed
guide
independent
lately
lining
management
moral
oversight
parcel
piece
proceed
proof
regular
remit
rifle
strict
surprised
total
trial
you'd

61%

advised
automobile
biggest
calves
choice
concluded
conversation
cute
decide
deposit
deserved
difference
final
musical
ninth
preacher
promotion
quality
quiet
regarding
whose

60%

advantage
adventure
argument
Bro.
comfortable
complete
confined
consider
continued
debt
extended
factories
future

ghost
gravy
inspector
instant
interesting
limit
lose
madam
mamma
national
published
reputation
shopping
sire
slightly
studied
vision

59%

alfalfa
channel
connected
contemplated
decided
destroyed
different
excess
feature
firm
funeral
laid
liberal
maintain
mention
natural
notify
operation
pardon
position
presume
procured
remembered
republican
ruin
satisfied
service
style
supplied
usual
whether

58%

appeal
appeared
aren't
braid
cabinet

capable
clothe
connecting
contrary
control
correctly
doubtless
either
enrolled
entertaining
favored
forced
garage
growth
honestly
loose
lovingly
machinery
manufacture
mentioned
misunderstanding
patent
pleasant
prepared
priced
register
represent
telephone
theatre
volume

57%

adjusted
author
billed
cellar
confer
division
drama
federal
filing
installed
manager
nephew
pastor
president
prevail
publication
secured
signed
transfer
transportation

56%

appointed
arrange

assure
cedar
choose
considering
convince
courage
crew
enroll
exact
expired
freight
furniture
graduating
guest
impossible
instructed
junior
manufacturing
operated
popular
purchase
refer
selection
slight
studying
supplies
vacant
worried

55%

accept
advancement
advertise
agreeable
attended
bass
collecting
commence
concert
constantly
effort
failure
female
inclined
instruct
liable
limited
missed
publisher
rendered
series
shipped
special
transit
treasurer
valuable

STEP 13—50%

54%

affair
awful
considered
corrected
correction
credited
doesn't
effect
generous
hesitate
internal
library
liquid
losing
neighborhood
neither
particular
possible
purpose
receive
refund
reliable
represented
requirement
resident
resulting
route
salesman
selected

53%

advertised
article
assist
automatic
carrying
concerning
consideration
course
humor
increase
jobber
largely
nickel
patient
Prof.
quotation
reference
serious
stomach
straight
support
supposed
worrying

52%
actual
cashier
catalogue
certain
crowded
discourage
disgusted
earliest
exactly
exam.
federation
formerly
graduation
increased
introduction
medicine
operating
opinion
personal
practice
reasonable
regardless
slippery
telegram

51%
absence
adopted
bracelet
calendar
college
confidence
connect
copies
desiring
discontinued
durable
employer
encourage
expression
imagine
realize
safety
spirit
strawberries
subscriber
weren't

50%
arrived
bargain
commerce
construction
deliveries
easily
extensive
graduate

hauled
justified
manual
niece
really
satisfaction
situation
stationary

49%
arrival
benefit
certainly
coarse
confident
convinced
enrollment
exception
favorite
instance
involved
literary
occupied
opera
organized
positive
remedy
satisfactory
splendid
succeed
system
vary

48%
applied
attempt
believing
circular
composition
connection
considerable
democrat
democratic
good-bye
haste
importance
numerous
patron
raiser
respectfully
responsible
strength
wholesale

47%
accomplish
announce
attached
attain

beginning
booster
fierce
hustling
investigation
Latin
moderate
personality
prefer
rural
strictly
tattooing

46%
advertising
all right
attach
banquet
compelled
cushion
data
decrease
difficulty
envelope
establish
expensive
fashionable
happiness
nervous
ninety
process
relative
sanitary
society
source
succeeded
talent
terrible
type

STEP 14—42%

45%
absolute
altogether
amendment
approved
assured
cartoon
choosing
Christian
concern
conclusion
develop
equally
exercise
inducement

label
notified
quote
securing
themselves
44%
arriving
attraction
circulation
conference
customer
elsewhere
fortunate
frequently
honorable
meant
mere
obligation
policy
purchased
reception
reservation
suggest

43%
accident
brief
celebrate
citizen
combination
established
glorious
grammar
influence
issue
planned
practical
profitable
realizing
relieved
timothy
universal

42%
auntie
available
canned
collection
congratulate
destination
difficult
electrical
ere
examine
government
gratitude
heretofore

introduced
invitation
justify
knowledge
mental
previous
qualities
receiving
regularly
resigned
salary
stopped
university

41%

allowed
companies
explanation
grateful
indicate
instructor
insurance
international
profession
sincere

40%

anxious
assortment
awfully
blizzard
business
candidate
congratulation
contemplating
etc.
generally
identify
investigate
legal
possibly
readily
relieve
satisfy
sense
suggested
surplus
territory

39%

agriculture
ambition
appointment
assembly
attractive
choir
confirming
co-operating
corporation

disease
estimated
examined
impression
received
representation
social
submitted
superintendent

38%

barely
considerably
design
equipment
expense
experience
instrument
material
registered
renewal
Sabbath
semester
signature
subscription
superior
urge

STEP 15—34%

37%

application
authorized
coupon
description
development
disagreeable
disposal
engineer
entitled
error
majority
merchandise
proposition
successful

36%

advertisement
agency
arranged
confirm
disappoint
evidence
favorably
genuine
merely
organize

supervision
welfare

35%

appreciate
assurance
ballot
basis
distribution
engineering
heir
prosperous
quantity

34%

assistant
fabric
illustration
installment
merit
rec'd
reliability
variety

33%

activity
based
canvass
conservatory
co-operative
crochet
demonstrated
electricity
excitement
hastily
literature
meter
notary
presence
prior
registration
secretary
sympathy

32%

attendance
client
compliment
consequently
consultation
duplicate
employee
examination
inst.
issued
ordinary
planning
practicing
preliminary

resource
supervisor

31%

absolutely
accordingly
assistance
auditor
commercial
council
existing
foreign
magazine
politics
various
vicinity

STEP 16—27%

30%

administration
advisable
allotment
announcement
circumstances
crocheting
demonstration
exceptional
executed
illustrated
inquiry
journal
organization
principal
principle
remembrance
similar

29%

acquire
actually
assuring
athletics
enormous
fundamental
girlie
institute
naturally
possess
response
straightened
thesis
unusual

28%

acquainted
arrangement
assignment
completely
convenient

co-operation
examiner
excellent
extreme
finally
gradually
orchestra
particularly
permanent
preparation
quantities
senior
substitute
X-ray

27%

additional
administrator
admission
applicant
civics
commission
consequence
evidently
inquires
institution
premium
receipt
satisfactorily
usually

26%

algebra
appearance
assume
correspond
immense
judgment
official
physician
probably
thorough

25%

attitude
carnival
constitution
continuous
customary
disappointed
equipped
individual
occasionally
original
possibility

24%

alumni
approval
bulletin

confirmation
cordially
decision
disappointment
epidemic
exhibit
familiar
geometry
illustrating
interfere
sincerely

STEP 17—21%

23%

acquaintance
annual
annually
association
essential
exclusively
exhausted
grippe
maturity
necessary
opportunity
remittance
representative
unusually

22%

assigned
certificate
character
communication
enthusiastic
librarian
personally
privilege
regretting
science
surgery

21%

assessment
especially
extremely
inferior
mechanical
prosperity
responsibility

20%

acceptance
accordance
agricultural
associated
attorney
circuit

mortgage
occasion
physical
solicit
19%
accompanying
bonus
campaign
cordial
correspondent
executive
license
professional
specification

STEP 18—16%

18%

appreciating
bureau
convenience
exceptionally
extension
Hallowe'en
legislation
necessity
pneumonia

17%

accomplished
affidavit
appreciation
commissioner
community
inconvenience
originally
practically
recommend
referred
scientific
unnecessary

16%

candidacy
capacity
efficient
exhibition
financial
guaranteed
immediately
leisure
sufficient

15%

acknowledge
anticipate
correspondence
fraternally
referring

14%
analysis
appreciated
enthusiasm
immediate
possession
tuberculosis

STEP 19—12%

13%

accredited
apparatus
authority
thoroughly

12%

accommodate
associate
courteous
peculiarities
phosphorus

11%

affectionately
ambitious
politician
specially

10%

anniversary
conveniently
recommendation

STEP 20—8%

9%

definite
ingredients
materially
8%
chautauqua
committee
definitely
zephyr

7%

anticipating
guarantee
rheumatism
soliciting

STEP 21—6%

6%

efficiency
lieutenant

5%

appendicitis
schedule

STEP 22—4%

4%

characteristic

SECTION XIII
THE IOWA SPELLING SCALE
GRADE VI

GRADE VI

STEP 1—100%		STEP 2—99%	
age	long	able	got
and	may	about	grass
as	me	add	green
away	more	all	hard
best	most	along	have
big	must	am	head
bill	my	an	help
book	name	apple	hold
boy	old	are	holding
but	on	at	ice
call	one	back	in
can	out	bad	inside
care	over	ball	into
clear	place	bank	July
cover	put	be	land
dear	read	bell	last
did	reader	better	lay
dog	real	bird	letter
door	rest	black	light
dress	run	blank	like
each	said	blow	little
end	same	box	lot
ever	say	butter	love
fast	see	check	made
father	she	child	make
feet	should	city	man
found	stand	clean	May
from	tell	coat	milk
get	thank	cold	Monday
give	that	come	move
go	the	cook	much
gold	them	corn	myself
good	they	could	never
grand	thing	day	not
happy	this	deal	nut
has	train	dinner	oil
he	tree	do	other
helping	under	doing	park
his	walk	down	pay
hog	walked	eat	peach
home	was	even	play
how	way	face	rain
if	we	farm	rich
is	went	farming	ride
it	what	faster	ring
just	when	fat	rock
lake	will	fire	rust
large	wish	fish	saying
larger	with	five	school
let	working	food	sell
live	year	girl	send
			seven
			ship

show
singing
small
snow
so
soil
some
spell
sport
state
stay
stone
table
take
taken
ten
test
thanking
think
three
till
time
top
understanding
up
us
very
wagon
washing
well
west
wheat
while
who
why
wide
window
without
wood
work
worked
would
yet
you
your

STEP 3—98%

after
ago
air
arm
around
art
ask
bake
barn

battle
because
bee
brand
bring
brother
bunch
by
cake
came
cannot
car
card
case
changed
class
clock
close
contest
country
covering
cow
cross
cut
dark
date
Dec.
December
delay
early
eight
every
eye
fail
fall
fill
foot
for
four
free
Friday
game
gave
going
grade
had
hand
hat
hay
heat
her
hill
him
homesick
hot
hour
house

however
hunt
ill
ink
Jan.
June
keep
kind
labor
lady
late
law
life
lived
longer
look
looking
lost
loved
mark
market
master
meal
mill
mine
money
mother
nation
near
next
night
nine
noon
note
Nov.
of
off
once
outside
page
paper
part
pick
please
point
poor
post
print
reach
red
remove
rent
report
river
room
rush
sample

sand
saw
seed
seeing
shall
sheep
sick
sickness
silk
slow
soon
south
spelling
spend
spot
spring
standing
start
stop
store
stove
such
summer
sweet
swell
talking
thinking
to-day
ton
trip
Tuesday
two
unless
used
wall
want
wanting
week
white
wife
wild
wishing
within
worker
yard
yellow
yes
yourself
zone

STEP 4—96%

97%

above
adding
again
agree

alone	fur	renter	bottle
any	glad	rice	bought
asked	glass	Sat.	boxes
baby	gone	sat	braid
backing	growing	sent	burn
band	half	set	buy
banker	handy	shoe	called
banking	harder	sink	cap
basket	harvest	sister	cash
bat	held	six	cattle
bed	here	size	charge
being	high	sleep	charming
below	holder	snowed	children
beside	horse	soap	clay
birthday	hundred	sound	coast
blue	hunting	space	cool
body	joy	stick	cost
bother	killed	sum	cotton
branch	kindly	sun	dandy
bringing	kindness	talk	depend
building	landing	tank	dressed
bushel	leader	teaching	drive
calling	left	then	dust
cat	looked	thin	earning
cent	low	to-night	enter
chair	luck	took	farmer
change	ma	town	few
Christmas	mad	treat	figure
clothing	mail	try	first
coal	maker	unable	flower
coin	meat	walking	forget
count	morning	wash	fort
counting	Mr.	water	friend
crop	net	whatever	fruit
dance	north	where	garment
danger	number	wind	gate
deep	office	winter	gather
display	only	wire	gift
dollar	our	write	given
done	oven	yearly	glasses
drop	overcoat		grain
earth	pack	added	great
east	party	ahead	ground
edge	people	alive	hang
far	per	also	hate
feed	picture	another	himself
fell	pig	anyone	hit
fellow	pin	asking	inch
felt	pine	become	inches
fifty	plate	behind	income
fight	playing	belonging	jump
finding	pound	belt	kid
fishing	price	block	kinder
forgot	proper	blood	king
form	rail	board	learn
fun	reading	boat	leave
	ready	boss	leg

96%

lesson
lift
listed
longest
lunch
mailed
March
marking
mouth
mud
music
newspaper
nice
no
nothing
ocean
Oct.
October
older
oldest
or
order
outfit
paint
papa
paying
payment
person
phone
pink
pleased
printed
provide
pure
quart
raised
rate
reached
remain
remark
request
return
road
roof
row
sack
sad
saved
sending
settle
sheet
shop
short
shut
simple
sir
sixty

slip
smart
soft
sold
song
spent
spoke
stamp
started
stated
station
study
sunshine
Sunday
supper
teacher
telling
tent
than
third
track
trained
trunk
war
were
whenever
willing
wise
wool
word
worth

STEP 5—94%

95%

act
bay
bet
blame
booklet
born
brick
bridge
brush
calf
camp
carpet
chicken
cities
club
company
cord
cup
dad
darling
dead
dearly

degree
delighted
died
draft
dream
drew
eighty
enough
evening
Feb.
fence
filling
follow
forgive
former
frost
glove
goat
goose
grove
handle
hear
heating
hereafter
inspect
job
kill
kiss
learned
leather
liver
maple
mate
mean
meet
meeting
mend
moved
new
now
obtain
oh
open
otherwise
own
painted
passing
pen
pie
plain
pole
press
pump
quick
range
rank
recover

rented
renting
rolling
rose
rule
seat
seem
seen
self
selling
Sept.
shame
shipment
side
sin
snowing
son
sort
spending
step
stood
stump
sugar
taking
teach
teeth
tenth
tested
thereafter
these
thick
thousand
ticket
tire
told
trace
true
trust
trusting
twice
understood
value
wake
watch
win
world
young

94%
advance
afternoon
always
amount
army
aunt
auto
beat
become

been	offering	awhile	many
between	pain	bear	matter
bright	partly	began	member
brought	pass	bench	might
build	payable	branches	mighty
catch	pending	broken	nature
center	pillow	chain	nerve
chart	post card	chop	nicely
cleaning	power	church	nose
cloth	pride	cleaned	overlooked
coffee	pull	closed	pa
contract	railroad	colder	packing
cooking	rained	content	painting
crib	recall	copy	pair
dare	removed	correct	plenty
dealing	reported	cottage	pocket
depending	round	court	postage
discount	rushed	cream	prevent
doctor	scout	cure	printer
egg	season	damage	protest
English	seventh	daughter	ranch
enjoy	seventy	dearest	reaching
feeding	silver	death	repair
file	skate	deed	respect
finish	something	don't	retain
finished	sometime	dresser	rod
fit	somewhat	drug	rubber
flat	sorry	drum	September
funny	speak	easy	serve
garden	stage	enclose	share
getting	steam	everybody	shortly
gladly	still	exchange	showed
goldfish	street	fact	sit
grant	strongest	farther	slipper
granted	subject	fine	smaller
greater	thankful	folder	somewhere
hall	those	folk	sooner
hardly	thread	fully	speaker
heap	trying	gain	starting
heavy	twenty	gallon	staying
hen	upon	ha	stranger
January	vacation	hair	tend
joyful	vote	handed	there
kitchen	weather	happen	Thursday
kitten	western	hearing	tip
know	wet	herewith	training
lame	whereby	history	twelve
least	wrote	indeed	union
list		island	united
load		jar	valued
locate		leaves	weak
lower		liberty	wedding
lump		likewise	welcome
match		loaded	withdraw
nearly		located	yesterday
noise		lone	
oats		lovely	

STEP 6—92%

93%

agent
answer
anything
asleep
ate

92%

address
already
appear
April
aside
August
author
bean
before
belong
bite
both
broke
busy
cane
can't
carry
cast
caused
charged
checking
chum
classes
contain
cooler
county
damp
dated
does
dozen
drill
duty
expert
express
family
fancy
filled
flesh
fresh
friendly
front
grandfather
grandma
gray
higher
honest
hurt
instead
invited
iron
itself
join
joined
keeping
kisses
lace

largest
learning
less
living
loyal
merry
moment
mostly
named
nearer
neck
need
nobody
officer
ordering
patch
planted
present
printing
production
proved
public
queen
reason
renew
returned
safe
shed
shot
sixth
square
strongly
studies
trade
uncle
use
visit
waited
waiting
wanted
wheel
which
wished
wonder
wrong
zero

91%

active
among
answered
anybody
beg
behalf
Bible
broad
chance
chapter

cleaner
closer
cloudy
cutting
delightful
demand
desire
elect
eve
everyone
everything
extend
extra
fear
feeling
fixed
forest
freeze
French
froze
frozen
gained
greeting
grown
having
hence
herself
hole
including
ivory
joke
judge
knowing
leaving
listen
lives
location
mailing
membership
mind
Miss
news
none
normal
package
plow
pools
postal
product
program
provided
race
raise
reduce
remind
render
reply

requested
requesting
require
respond
rug
sale
saving
scale
second
snap
stock
taught
tax
team
their
thought
tile
title
to
treated
understood
washed
wear
whole

STEP 7—88%

90%

acting
aim
almost
ashamed
Aug.
beef
bid
builder
changing
cheap
cheaper
coasting
conduct
contained
continue
corner
daily
deeply
die
direct
dispose
dread
ease
enjoyed
excuse
extent
factory
failed
fair

favor	turn	meantime	improve
flavor	turned	mistake	inclosed
floor	velvet	nap	increasing
formed	voter	notice	industry
frame	watching	orange	inform
fuel	weary	painter	informed
gaining	weekly	pavement	intend
grind	wishes	posted	kindest
grit	woven	presented	later
heard	youth	prize	latest
hoped		property	local
I'm	absent	raw	message
inasmuch	action	reduction	movement
information	afraid	regret	moving
junk	amounting	relation	noticed
lamb	answering	riding	organ
lumber	anyhow	rip	owned
making	anyway	score	perhaps
met	anywhere	seemed	phoned
miss	apart	setting	placed
neat	attend	shape	plum
nor	begin	stair	properly
noted	bottom	steel	proud
November	bags	suit	recovered
object	button	thirty	reduced
ours	cared	thus	repeat
packed	central	together	result
pearl	cheer	tried	retail
pencil	chill	valley	returning
picking	clearly	won	ribbon
plan	closing	won't	rye
played	comfort		says
poorly	deliver	acre	silence
porch	detail	acted	suffering
politics	devoted	against	talked
prove	during	artist	text
providing	factor	blew	throat
rabbit	feeder	boiler	treatment
reaches	foolish	careful	trouble
reserve	force	climate	uniform
right	German	colt	walt
sash	glee	dancing	warm
seal	helped	delivered	witch
secure	hurry	dodge	worm
several	idea		
sight	I'll	election	87%
someone	improved	enclosed	across
sore	intended	except	attending
speed	invite	fashion	begun
suppose	knew	field	bigger
surface	ladies	fifth	birth
temple	language	find	bluff
through	latter	forth	cause
tie	leaf	greatest	concluded
township	lodge	grew	cousin
toy	loud	hardware	discovered
travel	lung	hotel	duties
		household	example

expressed	tiny	modern	enjoying
finest	useful	Mrs.	entering
finger	visiting	narrow	firm
fix	writer	odd	fitting
ford		owe	illness
future	STEP 8—84%	pastor	inspector
gas		peace	instruction
gasoline	86%	perfect	ironing
geography	adjust	permit	length
graze	admit	piano	linen
health	advice	pleasure	main
helpful	afterward	prevented	mister
highest	apply	promotion	mountain
holiday	await	quickly	parlor
include	awaiting	quoted	perfectly
inviting	barley	rack	placing
kept	beauty	saver	prepared
known	beet	shade	promised
laugh	built	skirt	prospect
lighting	capital	stating	running
liked	carrier	student	saddle
lonesome	checked	throughout	slide
lucky	coach	too	steady
maid	common	topic	though
married	condition	total	tired
middle	credit	turkey	traveling
month	dairy	visited	voice
monthly	deportment	wage	weight
northern	dice	waist	women
nurse	directed	wasn't	wonderful
offered	eager	whom	84%
opening	eleventh	workmanship	advanced
powder	else	worse	afloat
pretty	fifteen	85%	ans.
private	figured	account	baking
proven	film	adopted	barrel
raising	final	advising	beyond
rapid	flour	aware	breaking
rapidly	following	badly	bulk
record	football	balance	butcher
refuse	general	base	chairman
relationship	germ	bit	chose
reliable	globe	brown	circus
required	gown	carried	clerk
Saturday	guess	coming	clever
scare	handled	comply	collect
settlement	honor	containing	color
since	housekeeping	conversation	dealer
single	ideal	cough	decline
sock	improving	covered	district
soldier	investment	debate	dwelling
spread	lecture	deserve	forwarding
storm	lie	directly	frankly
strike	lonely	dirty	handling
stuff	lowest	disposed	handsome
submit	machine	drilling	healthy
suitable	manage	eighteen	herein

husband
inclose
included
instruct
letting
million
model
needing
nevertheless
ordered
penny
performed
personal
primary
protected
publisher
regulation
renewed
simply
sis
slept
spare
stamped
statement
supply
sure
taxes
thereof
upper
view
winner
worry

83%

abstract
ache
advantage
although
ample
animal
appeal
arrange
automobile
backed
beaten
breakfast
cheerful
companion
delayed
elected
feel
fourteen
fourth
fund
furnishing
habit
important

inclosing
knot
neighbor
notion
outlined
owner
parties
pertaining
proof
pupil
quiet
quite
recess
refreshment
refund
resulting
roll
served
shoulder
sign
skating
success
that's
unpaid
until
written

82%

adventure
boarding
buyer
candle
cement
couple
debating
depot
education
explained
famous
forward
foundation
gotten
haven't
headquarter
homestead
insert
limb
limit
method
minute
moral
needed
neglect
past
plainly
presume
promise

question
scarce
server
serving
sew
sitting
sorrow
standard
stories
throw
tread
weighed
worthy
yoke
you'll

STEP 9—79%

81%

agreeable
agreed
avenue
blessed
bowl
break
captain
caught
collection
connect
considering
coy
curtain
delivery
dose
effort
excess
expected
expecting
explain
factories
fault
feature
furnace
future
guide
headache
hurried
instructed
I've
mass
misses
needle
o'clock
oversight
pattern
post office
problem

prompt
quantity
reputation
ruin
secured
select
sewing
struck
supplied
term
we'll
writing ✓

80%

addition
aid
Ave.
average
booth
chief
convention
crazy
desired
direction
division
either
enclosing
excited
fare
female
fern
forwarded
greatly
grip
group
growth
hospital
inquire
loss
minister
ought
picnic
prepare
profit
resident
settled
shown
sleet
utmost
vision
woman
yourselves

79%

adjustment
ankle
attention
bog

burden
buying
cellar
colored
constant
correction
crew
different
dreadful
earnest
entertainment
favorable
favored
fee
fitted
forenoon
fortune
friendship
furnished
happened
human
intention
invoice
manner
mention
natural
oblige
obtained
opened
reception
recite
refused
remember
rendered
rough
scrap
seldom
tanning
telephone
Thanksgiving
toward
trial
volume
Wednesday

78%

according
actor
adjusted
blackberries
blooming
cherries
cigar
comfortable
complete
confined
crippled

crowd
destroyed
due
forty
further
gland
humor
instant
manufacture
mentioned
musical
namely
neighborhood
parent
patient
preacher
promptly
quit
rainy
recently
regarding
represent
section
shipping
shock
special
waste
Xmas.

77%

addresses
allow
arrive
assure
buggy
carefully
certainly
consist
current
dangerous
director
entered
extended
federal
forced
handkerchief
hare
hers
I'd
installed
isn't
lbs.
loan
loving
machinery
obliged
particular

piece
progress
putting
reasonable
regard
regular
remembering
replying
republican
route
selection
service
situation
subscriber
sweater
tight
touch
truly
weigh
worst
wouldn't

STEP 10—73%

76%

applied
attached
attempt
cabinet
certain
choose
consider
construction
convince
creep
domestic
employed
entitle
failure
fairly
fullest
garage
gee
grocery
interesting
level
likely
measure
owing
popular
prayer
prepaid
priced
produce
receive
slippery
smooth

towel
voting
watched
75%
accept
accomplish
addressed
appointment
assist
attractive
biggest
closely
connecting
connection
constantly
couldn't
creamery
doubt
effect
enroll
entertaining
entire
exactly
figuring
gentleman
hasn't
honestly
hoping
interested
international
its
moderate
ourselves
per cent
position
produced
publication
represented
rifle
studied
supplies
surprise
tickled
transfer
wondering

74%

absolute
automatic
avoid
collar
commerce
complaint
courage
deserved
drama
entry
fever

filing	72%	consideration	support
importance ✓	advertise ✓	debt	vacant
independent ✓	arranged	decided	
internal	arrived	deposit	STEP 11—66%
jury	attraction	described	
laid	bargain	exam.	69%
largely	choice	favorite	accordingly
loose	circular	hello	approved
madam	college	increased	attain
manager	commence	indicate	bracelet
neglected	composition	interest	calves
opera	concern ✓	introduced	cedar
parcel	conclusion	issue	collecting
procured	considered	pardon	combination
quarter	cute	period	connected
quote	desiring	remembered	convinced
refer	durable	remit	copies
register	encourage	satisfied	corrected
seller	enrolled	splendid	doubtless
shopping	entertain	strict	earliest ✓
strength	entirely	struggle	enrollment
supervision	exception	supposed	February
to-morrow	exciting	taste	furniture
tract	expired	wearing	graduating
Tues.	followed	70%	grammar
usual	freight	appeared	gratitude
violin	gentlemen	assured	guest
we've	hesitate	awful	lately
whose	improvement	carrying	library
you'd	liberal	considerable	lovingly
73%	neither	contrary	realize
appointed	preparing	control	relieve
Bro.	Prof.	course	satisfactory
calm	remained	credited	search
circulation	rural	crowded	securing
correctly	selected	employer	serious
dependent	shipper	explaining	system
difference ✓	slight	expression	themselves
easily	social	forgot	weren't
extensive	stayed	funeral ✓	whether
ghost	style	instance ✓	68%
gravy	surprised	introduction	capable
hadn't	telegram	Latin	citizen
increase ✓	therefore	limited	concerning
justified	71%	maybe	daddy
nineteen	ability	medicine ✓	discontinued
organized	absence	nervous	elsewhere
president	accident	notify ✓	graduation
proceed	actual	occupied ✓	invitation ✓
queer	advise	passed	item
signed	advised	positive	liquid
sire	aren't	prevail	numerous
slightly	argument	reservation	obligation
spirit	booster	satisfaction	possible
treasurer	braid	separate ✓	published
using	channel	straight	really
	confident		

shipped
superior 67%
advancement
advertised
attended
believe
continued
didn't
exact
examination
examined
frequently
generous
hustling
impossible
influence
manufacturing
ninth
operated
profitable
recent
reference
satisfy 66%
applicant
available
celebrate
companies
confirm
contemplated
Dr.
federation
maintain
national
opinion
policy
quotation
remedy
requirement
resigned
society
vary
wholesale 65%
agriculture
alley
canned
concert
fashionable
formerly
heir
insurance
involved
niece
patent
pleasant

received
salesman
theater
transportation
valuable 64%
additional
arrival
article
assembly
clothe
decide
decrease
deliveries
evidence
genuine
happiness
hereby
honorable
inclined
investigate
management
misunderstanding
patron
purchased
purpose
raiser
realizing
signature
studying
worried 63%
affair
arriving
attach
banquet
brief
confer
design
destination
disgusted
exercise
graduate
inquiry
junior
purchase
registered
respectfully
source
strawberries
submitted
STEP 12—58%
altogether 62%
billed

cashier
choosing
conference
customer
discourage
envelope
fabric
knowledge
lose
missed
possibly
prefer
profession
regardless
salary
sincere
suggested
transit 61%
advertising
alfalfa
allowed
announce
believing
congratulate
corporation
examiner
expensive
fierce
liable
mamma
mental
operation
process
receiving
reliability 60%
activity
application
cartoon
develop
engineer
establish
expense
glorious
haste
legal
nephew
operating
safety
sanitary
stomach
tattooing
terrible 59%
Christian
democrat

doesn't
evidently
identify
jobber
material
various 58%
anxious
assistant
candidate
compelled
cushion
difficult
equipment
excellent
exceptional
investigation
majority
practice
proposition
relative
strictly
successful
welfare 57%
assortment
democratic
electrical
entitled
equally
impression
inducement
instructor
instrument
lining
literary
manual
mere
meter
presence
previous
qualities
representation
senior
series
timothy
worrying 56%
character
confidence
development
etc.
examine
foreign
government
hailed

imagine
organize
personality
renewal
stopped
succeed ✓

55%

acceptance
ambition
amendment
bass
business ✓
catalogue ✓
choir
confirming
constitution
difficulty
disease ✓
error
extreme ✓
generally ✓
issued
losing
magazine ✓
orchestra
politics
prosperous
regularly
territory
type
variety

STEP 13—50%

54%

assigned ✓
authorized
beginning
benefit
crochet
customary
favorably
merchandise
ninety
occasion
original
possession
similar ✓
succeeded

53%

awfully
completely ✓
considerably ✓
decision ✓
demonstrated
description
disposal ✓

established
exclusively
gradually
notified
particularly ✓
planning
principal
readily ✓
suggest
supervisor
university

52%

advertisement ✓
assistance
blizzard
calendar ✓
commercial
data
estimated
responsible
sense
stationary
talent
universal

51%

appearance ✓
crocheting
ere
fortunate
inferior
label
meant
nickel
practicing
probably

50%

admission
agency
appreciate
assurance
barely
carnival
coarse
excitement
registration
sympathy ✓

49%

announcement
attendance
attitude
contemplating
duplicate
engineering
heretofore
institution
urge

48%

accomplished
acknowledge ✓
attorney
consultation
co-operation
disappoint
distribution
electricity
existing
experience
illustrated ✓
preliminary
premium
relieved
Sabbath
straightened
usually

47%

congratulation
consequently
enormous
installment
librarian
naturally
ordinary ✓
secretary
superintendent

46%

assignment ✓
assuring
based
council
disagreeable
employee
exhibit
girlie
good-bye
grateful
hastily
illustrating
preparation
resource
semester

STEP 14—42%

45%

administration
appreciation
athletics ✓
cordial
planned
practical

44%

appreciated
civics

co-operative
coupon
finally ✓
literature
merit

43%

administrator
approval
auditor
certificate
co-operating
correspond
familiar
journal
legislation
merely
organization
quantity
response
surgery
surplus

42%

accordance
arrangement
circumstances
conservatory
correspondent
individual
justify
principle ✓

41%

agricultural
assume
auntie
demonstration
extension
illustration
immense
inquires
necessary
remembrance
subscription
substitute
unusual

40%

commission
communication
mechanical
practically
prior
receipt ✓
remittance

39%

actually
continuous
epidemic

possess
professional
science
specification
vicinity

38%

advisable
all right
authority
ballot
basis
geometry
interfere
rec'd
scientific

STEP 15—34%

37%

absolutely
annually
associated
exhausted
official
regretting

36%

acquainted
consequence
inst.
judgment
permanent
specially
thesis

35%

ambitious
annual
bureau
client
convenient
cordially
disappointed
immediate
institute
personally
physician
possibility
quantities
representative

thorough
X-ray
compliment
exceptionally
executed
executive
license
notary
sufficient

34%

33%

allotment
associate
materially
occasionally
opportunity

32%

acquaintance
algebra
courteous
financial
sincerely

31%

accredited
acquire
alumni
association
disappointment
enthusiastic
extremely
leisure
prosperity

STEP 16—27%

30%

circuit
soliciting
affectionately
anticipating
capacity
commissioner
unusually

29%

28%

bonus
community

immediately
recommend
referred
responsibility
satisfactorily

27%

bulletin
canvass
conveniently
fraternally
referring

26%

candidacy
committee
equipped
inconvenience
maturity
necessity
physical
tuberculosis

25%

campaign
correspondence
especially
fundamental
privilege
solicit

24%

anticipate
assessment
confirmation
enthusiasm
grippe

STEP 17—21%

23%

accompanying
convenience
essential
exhibition
Hallowe'en
originally

22%

definite
mortgage
politician

accommodate
appreciating

21%

20%

affidavit
analysis
chautauqua
unnecessary

19%

recommendation

STEP 18—16%

18%

apparatus
pneumonia

17%

anniversary
appendicitis
guarantee
lieutenant
thoroughly

16%

efficient
zephyr

STEP 19—12%

13%

definitely
phosphorus

11%

characteristic

10%

ingredients
rheumatism

STEP 20—8%

9%

efficiency
guaranteed
peculiarities
schedule

SECTION XIV

THE IOWA SPELLING SCALE

GRADE VII

GRADE VII

STEP 1—100%

able	fall
about	farm
adding	fast
afternoon	faster
again	fell
age	fellow
air	fish
all	five
alone	forgive
an	from
are	gate
arm	get
art	girl
asking	give
at	glove
be	go
because	gold
bell	good
best	got
better	grade
bill	grain
black	had
book	half
box	hand
boy	happy
brain	have
bring	help
but	helping
call	her
called	him
came	his
can	home
car	hot
card	how
case	ice
charge	if
class	inside
coat	into
come	is
corn	it
could	June
country	just
cut	kind
day	land
deep	large
did	last
do	late
dog	left
early	lesson
eat	let
every	letter
eye	like
fail	little
	live

long
looking
lot
make
man
many
master
me
milk
more
most
mother
must
my
name
neck
net
Nov.
nut
on
one
out
paper
park
pay
people
pick
pig
place
pleased
point
postage
put
reading
rest
row
rule
run
school
see
sell
send
she
silk
sister
six
snow
some
space
stage
start
started
state

stick
stone
such
take
taken
teaching
tell
test
that
the
then
think
thinking
this
time
top
toy
train
tree
unable
unless
up
us
very
wall
was
way
we
well
west
what
when
while
who
why
wife
will
window
winter
with
without
word
work
working
year
yellow
your

STEP 2—99%

above
active
add
added

after	display	light	railroad
ago	doing	longer	rain
ahead	down	longest	rate
along	dress	look	reach
also	drop	love	read
am	each	loved	real
answer	earth	mad	red
any	east	made	report
ask	edge	mail	ride
away	eight	mailed	ring
baby	eighty	maker	river
back	face	market	rock
backing	farming	may	rush
bad	fat	meal	rust
band	fight	mean	sad
bank	filled	mill	said
banker	finding	Monday	Sat.
bean	fine	money	sat
bed	flat	mostly	saw
been	food	much	say
behind	for	mud	saying
belonging	found	music	seat
below	free	myself	self
big	game	night	shall
bird	getting	nine	sheep
birthday	given	north	ship
blank	glad	not	shoe
blue	going	note	short
bought	gone	notice	should
bright	grant	number	showed
bringing	green	oats	sick
brother	handed	of	sign
bunch	hang	oil	sixty
butter	has	older	slow
by	he	oldest	snowed
calf	head	our	so
cannot	hill	outside	son
cap	holding	oven	song
cash	hour	over	sound
catch	house	overcoat	spell
cent	however	pack	spend
child	ill	page	spot
children	in	paying	spot
clean	ink	payment	spring
clear	Jan.	pen	stamp
close	joy	picking	stand
cold	July	pie	standing
cost	kindly	plate	stay
cream	kiss	play	still
cross	lace	playing	store
cup	lady	please	subject
dandy	lake	poor	summer
danger	landing	press	Sunday
dear	larger	print	sweet
December	law	proper	swell
dinner	leader	quick	table
discount	leave	rail	thank

thanking	April	delighted	income
them	as	died	inspect
they	Aug.	dispose	invited
thing	aunt	door	January
three	bake	drill	jump
till	ball	drug	keep
tire	bat	drum	keeping
told	battle	dust	kid
took	become	easy	kill
town	bee	end	kinder
trip	behalf	evening	kindness
trust	belt	ever	king
trusting	beside	example	labor
try	blood	exchange	ladies
twice	boat	express	lay
two	body	far	learned
under	booklet	fear	leather
use	boss	feed	life
vacation	bother	feet	lived
value	bottle	felt	liver
walk	boxes	fill	lives
want	branch	filling	living
washing	brush	finish	loaded
week	building	first	lost
went	burn	fishing	luck
were	cake	Friday	mark
whatever	calling	friend	marking
wheat	camp	fully	May
whenever	care	gift	meat
where	carpet	glass	meet
white	chair	glasses	mine
wide	chance	goat	Miss
willing	change	goose	mouth
win	check	grand	Mr.
wind	city	grandfather	nation
wise	classes	granted	near
wish	closed	great	nearly
wishing	cloth	hair	never
wood	club	harder	new
world	coal	hardly	news
would	coffee	hat	nobody
wrote	coin	hay	noon
yard	conduct	hearing	off
yes	contest	heat	once
yet	continue	heating	only
you	cook	heavy	or
zone	counting	here	other
	covering	herself	packing
	cow	high	paint
	cutting	hit	painted
	dance	hog	part
	dark	holder	party
	darling	hundred	pass
	date	hunt	peach
	deal	hunting	pine
	Dec.	inch	placed
	delay	inches	planted

STEP 3—98%

act
agent
almost
amount
and
another
apple

pole
post
pretty
printed
printing
provide
race
raised
range
rank
ready
reduction
remain
remove
removal
rent
renting
request
respect
rich
rolling
room
round
safe
same
sample
sand
saved
seed
seeing
sending
sent
set
seven
seventh
seventy
shade
shipment
show
shut
silver
sin
singing
single
sink
sit
size
slip
small
snowing
soap
soft
sold
soon
sooner
sort
south

spelling
stood
stop
storm
stunt
sugar
sum
sunshine
talk
talking
tank
telling
ten
tested
thin
thousand
ticket
to-day
ton
travel
treat
true
trunk
Tuesday
twenty
united
used
valued
visit
voter
walked
walking
wanting
war
wash
washed
watch
western
which
wild
wool
worked
write
yearly
yesterday
yourself

STEP 4—96%

97%

abstract
advance
aim
alive
always
anyone
anywhere

army
auto
awhile
banking
barn
basket
bay
bear
before
begin
being
belong
bench
bet
between
block
born
brick
bushel
button
buy
cared
cattle
caused
chain
chum
church
clay
clearly
clock
cloudy
coast
colder
company
contain
cotton
count
cover
crop
dad
daughter
dearest
deed
demand
depend
direct
dodge
dollar
don't
dozen
dream
drilling
drive
egg
election
family
farmer

father
Feb.
feel
few
fifty
finished
fit
flower
folder
foot
forget
four
frost
gain
garden
garment
gather
gave
glee
grass
ground
growing
hall
handy
hard
hate
hear
held
higher
himself
hold
homesick
horse
I'm
iron
island
job
judge
kitten
know
largest
learn
leg
less
lift
list
listed
load
local
locate
location
looked
low
lower
lunch
machine
maid

mailing	September	wire	funny
March	serve	within	gladly
matter	settle	worker	greater
membership	several	96%	grove
morning	share	anybody	grown
move	sheet	anything	handle
moved	sickness	around	happen
nature	side	asleep	hardware
nice	sleep	backed	heard
no	smart	became	hen
noted	soil	branches	hence
nothing	someone	brand	highest
November	something	brought	history
now	sometime	busy	honest
object	spending	carry	hurt
Oct.	spent	center	improve
office	standard	changed	improved
orange	stated	charged	industry
order	station	cheer	instead
outfit	staying	chicken	jar
painting	steam	Christmas	joined
pair	step	cleaner	learning
papa	stove	cleaning	liberty
per	stranger	cooking	lumber
picture	strongest	cord	making
pin	stuff	cottage	match
pink	suffering	crib	mate
plan	sun	cure	meeting
pleasure	teacher	damp	message
plenty	teeth	dare	mighty
poorly	tenth	dealing	million
pound	than	deeply	mind
prevent	thereafter	degree	named
price	thick	desire	nerve
protest	those	die	next
reached	thought	directed	nicely
reaches	thread	doctor	none
reader	thus	done	nor
recall	to-night	dressed	normal
recover	total	ease	nose
remark	township	English	obtain
renew	trace	enter	October
reported	twelve	even	open
require	uncle	extra	ordering
required	understanding	fact	overlooked
respond	understood	farther	packed
result	union	fence	partly
retain	velvet	figure	patch
return	vote	find	payable
rice	wagon	fire	pencil
road	waiting	follow	person
rose	wanted	forgot	phone
rye	watching	former	potatoes
sack	water	fort	present
secure	welcome	fruit	primary
seem	wet	fun	produce
selling	wheel		product

profit
provided
pump
pure
quart
queen
question
raise
record
reduce
regulation
relationship
render
rented
renter
requested
returned
roof
rubber
rug
scale
scare
second
seemed
seen
Sept.
shame
shape
shot
sight
simple
sir
smaller
snap
somewhat
somewhere
speak
special
spoke
spread
stair
starting
steady
stock
street
study
supper
sure
taking
talked
temple
there
these
third
tile
tip
treated

trying
understand
upon
voice
waited
whereby
wished
wishes
won
worth
young
zero

STEP 5—94%

95%

acting
action
address
afraid
agree
anyhow
apart
arrived
August
badly
base
beat
beg
begun
bid
birth
blame
blow
bottom
bridge
broke
brown
build
can't
cause
central
chapter
charming
chop
cities
clothing
colt
content
contract
cooler
court
damage
dated
debate
debating
decline

depending
deportment
does
draft
dread
earning
enjoying
enough
except
excuse
extend
extent
factory
failed
famous
favor
feeling
file
fix
floor
form
formed
frame
fresh
friendly
fur
furnish
gown
grandma
grew
guess
hoped
hotel
insist
joke
killed
kitchen
knowing
known
language
laugh
length
letting
likewise
located
lone
lonesome
loud
lovely
lowest
lump
maple
mind
might
month
monthly

needed
noise
ocean
offering
oh
otherwise
own
package
pain
passing
pillow
pocket
postal
post card
power
presume
prize
program
progress
public
pull
raw
reaching
reason
regret
reply
rushed
score
scout
season
shop
skate
sorry
speaker
square
suit
team
tent
thankful
thirty
through
Thursday
tie
trade
treatment
turned
wake
warm
weary
weather
wedding
whole
witch
withdraw
worm
woven
wrong

among	94%	knew	advantage	moment
answered		lame	already	movement
attend		leaving	ample	narrow
beef		lighting	animal	natural
began		listen	ans.	nearer
Bible		lodge	answering	neat
bite		loving	aside	newspaper
board		lucky	asked	odd
boiler		ma	ate	officer
broken		married	bugs	pavement
builder		meantime	cane	plum
bulk		member	cheap	printer
cat		mistake	checked	promotion
chart		mister	collect	quickly
climate		northern	copy	quoted
comfort		notify	correct	rack
cool		notion	cough	raining
county		opened	daily	recess
dead		ordered	dealer	refuse
dearly		pearl	district	requesting
deliver		pending	division	retail
devoted		played	domestic	returning
duty		powder	dreadful	rod
eighteen		presented	dresser	rough
elect		prevented	during	running
elected		production	duties	sale
else		ranch	education	served
everything		recovered	eleventh	serving
expert		refused	expressed	settlement
explain		relation	factor	sewing
feature		remind	fancy	shock
fifteen		repair	female	sorrow
fifth		repeat	field	stamped
figured		rip	film	stories
fixed		shortly	folk	strongly
flavor		sixth	football	student
flour		sock	force	tend
forest		studies	front	term
froze		supply	geography	their
frozen		taxes	having	throughout
gallon		tried	herewith	tiny
general		trouble	homestead	to
gray		turn	human	track
greatest		uniform	hurry	training
ha		valley	idea	turkey
harvest		visited	include	unpaid
heap		visiting	indeed	useful
hole		watched	informed	winner
I'd		weak	invite	wonder
illness		worry	justify	wonderful
including		youth	kisses	worthy
increase			leaves	92%
instruct		STEP 6—92%	lecture	absent
itself	93%		loyal	acre
join		account	measure	afterward
joyful		actor	model	aid
		addition	moderate	arrive

artist
attraction
barley
barrel
beet
bit
blessed
blew
bluff
both
broad
burden
carried
cast
changing
cheaper
checking
cigar
cleaned
clerk
closer
coach
coasting
companion
complete
connecting
corner
corrected
covered
credit
dancing
death
delivered
directly
enjoy
eve
everybody
everyone
feeding
finest
finger
flesh
foundation
frankly
freeze
French
furnace
gained
goldfish
greatly
headache
health
honor
husband
important
information
inviting

kept
kindest
lamb
latest
least
liberal
lonely
lung
manage
merry
middle
modern
moving
need
needle
offered
organ
ours
painter
parties
peace
perfect
permit
pools
private
prompt
properly
prospect
proved
rained
remember
riding
right
sash
saving
seal
setting
shed
shoulder
steel
suitable
surface
though
throat
title
topic
wait
wear
worse
writer

91%
advising
against
although
amounting
appear
apply

attending
beaten
beyond
boarding
breakfast
built
candle
caught
circulation
circus
color
common
concluded
condition
containing
conversation
creamery
dairy
detail
difference
discovered
encourage
enjoyed
entering
expected
expression
feeder
final
followed
foolish
forth
greeting
habit
household
ideal
inform
intended
ivory
junk
leaf
main
miss
nevertheless
owe
pastor
posted
pride
problem
promise
protected
proud
prove
proven
pupil
quotation
rabbit
reduced

refreshment
regular
reliable
reserve
says
shipping
silence
simply
since
skirt
speed
taste
taught
tax
trained
until
upper
wage
written

STEP 7—88%

90%

according
anyway
appeal
ashamed
attention
aware
booth
butcher
buying
chill
connect
connected
connection
couple
crazy
delayed
delightful
dirty
eager
effort
enclosed
entertainment
expecting
fairly
fortune
friendship
fuel
fund
furnished
gaining
gas
gentleman
German
gotten

grind	author	thereof	mass
grit	automobile	too	national
grocery	beauty	tread	nurse
healthy	careful	trial	outlined
I'll	closely	wasn't	parlor
included	contained	won't	perhaps
investment	current	worst	plow
later	curtain	88%	possible
level	dangerous	acted	prepare
liked	debt	admit	president
liquid	direction	advanced	promised
met	entered	adventure	rainy
minute	failure	allow	register
neglect	fair	attended	renewed
neglected	fashion	Ave.	reputation
noticed	fee	avenue	scrap
obtained	fierce	bigger	seldom
owner	forgotten	break	server
penny	further	buggy	service
period	germ	cement	skating
phoned	globe	certain	slightly
piano	grammar	chairman	soldier
porch	graze	cherries	success
prepaid	guide	chief	therefore
providing	handling	comply	tired
putting	helped	composition	treasurer
raising	hereafter	consider	87%
rapid	hesitate	considered	agreeable
rapidly	honestly	correctly	agreed
refund	inclosed	cousin	ambition
remained	instruction	crew	appointed
resulting	isn't	didn't	approved
saddle	jury	difficult	assist
section	loss	dwelling	average
secured	method	entire	await
sis	mountain	exact	awaiting
slept	Mrs.	explained	baking
slipper	nap	fault	balance
smooth	neighbor	following	blackberries
social	opening	forty	blooming
statement	owned	forwarding	buyer
suppose	pa	fullest	cabinet
Thanksgiving	per cent	furnishing	calm
vision	picnic	future	carefully
weigh	plain	gasoline	cheerful
weight	popular	gland	collection
whom	property	happened	coming
women	recite	hare	commerce
wondering	regard	helpful	consideration
89%	ribbon	herein	considering
absolute	settled	holiday	construction
across	sore	housekeeping	convention
addresses	strike	increasing	correction
adjust	struggle	inspector	depot
advised	style	instructed	desired
arrange	sweater	lie	dice
assure	text	limb	director

due
enclosing
entirely
entitle
excited
expired
firm
fitted
fitting
funeral
gentlemen
ghost
impossible
improving
inquire
ironing
limit
machinery
manufacture
needing
numerous
parent
pertaining
placing
position
prayer
prepared
preparing
priced
promptly
proof
publisher
quiet
quite
reasonable
Saturday
sew
slide
spare
strength
struck
submit
throw
touch
transportation
truly
view
waist
weekly
weighed
yoke

STEP 8—84%

86%

banquet
bog

clever
closing
commence
courage
described
deserve
different
dose
earliest
effect
fare
fourth
garage
gee
graduation
grip
guest
handed
handsome
headquarter
humor
hurried
intention
interest
issue
latter
manner
oversight
parcel
performed
personal
plainly
post office
proceed
published
recently
represent
selected
selection
situation
traveling
whose
yourselves

85%

ache
advertised
appeared
avoid
believe
bowl
breaking
capital
celebrate
chose
complaint
consist
constant

copies
drama
excess
favorable
federal
forced
forward
forwarded
fourteen
growth
inclose
increased
indicate
intend
international
knot
lately
limited
linen
minister
musical
namely
obliged
o'clock
ought
ourselves
produced
publication
quality
represented
rifle
roll
route
select
seller
signed
sleet
strawberries
suggest
themselves
together
to-morrow
towel
volume
woman
wouldn't

84%

adjusted
advertise
advice
advise
afloat
ankle
applied
approval
carrier
cashier

colored
comfortable
confined
constantly
continued
cute
decided
discourage
either
enrolled
error
extended
favored
federation
group
hospital
importance
inasmuch
inclosing
insert
I've
misunderstanding
past
patent
piece
process
purpose
queer
received
reception
relative
representation
republican
resident
saver
scarce
society
system
tanning
telegram
telephone
that's
tract
waste
Wednesday
workmanship

83%

absence
capable
circular
citizen
confident
creep
crippled
doubtless
earnest
enclose

enroll	internal	theater	deposit
exam.	material	tickled	destroyed
exciting	mention	toward	explaining
factories	neither	usual	filing
graduate	oblige	vacant	hadn't
graduating	perfectly	we'll	haven't
gratitude	purchase	Xmas.	hereby
instance	quarter	80%	independent
insurance	recent	actual	institution
interesting	remembered	adjustment	introduction
knowledge	remit	appreciate	lovingly
laid	replying	article	management
legal	resigned	attractive	moral
manager	salary	booster	neighborhood
manufacturing	securing	canned	occupied
misses	subscriber	captain	opinion
owing	surprise	course	patient
particular	worried	credited	regarding
preacher	writing	desiring	requirement
receive		exercise	rural
ruin	STEP 9—79%	extensive	stayed
satisfied	81%	fabric	studied
search	assembly	figuring	voting
shipper	bracelet	forenoon	78%
shopping	cartoon	hello	ability
shone	companies	inclined	agency
stating	conference	interested	argument
supplied	delivery	jobber	certainly
supposed	develop	justified	college
tight	disposed	library	conclusion
violin	doubt	likely	considerable
82%	entertaining	manual	convinced
accept	fern	notified	couldn't
accomplish	fever	positive	daddy
addressed	freight	quit	difficulty
adopted	handkerchief	raiser	entry
appointment	happiness	remembering	established
arranged	invitation	rendered	exception
arriving	item	source	favorite
assured	loan	superior	finally
assuring	loose	universal	hasn't
attached	mentioned	wearing	heir
attempt	nephew	you'll	involved
awful	operated	79%	lbs.
biggest	passed	agriculture	nineteen
cellar	pattern	attach	opera
collecting	prevail	attain	ordinary
concern	realize	authorized	procured
design	regardless	automatic	sanitary
easily	satisfactory	calves	stationary
employed	serious	choose	straight
entertain	sitting	collar	tattooing
ford	slight	concerning	Tues.
generous	spirit	convince	utmost
hoping	supplies	coy	we've
improvement	support	decrease	whether
instant		dependent	

77%
accident
activity
affair
arrival
channel
concert
contemplated
crowd
deliveries
democratic
deserved
destination
durable
establish
evidence
exactly
examined
February
hustling
junior
liable
lining
maybe
nervous
policy
Prof.
purchased
quote
slippery
supervision
using
you'd

STEP 10—73%

76%
application
brief
Bro.
choice
compelled
customer
decide
formerly
hauled
investigate
investigation
literary
madam
maintain
mamma
mere
obligation
operating
operation
pleasant

proposition
refer
regularly
satisfaction
transfer
university
75%
allowed
anxious
assistant
blizzard
character
Christian
confer
confidence
crowded
discontinued
duplicate
expense
explanation
favorably
haste
influence
installed
introduced
journal
largely
organized
registered
relieve
series
signature
sire
strict
surprised
transit

74%
advertising
cedar
combination
development
Dr.
employer
engineer
envelope
expensive
frequently
gravy
honorable
illustrating
its
merchandise
pardon
possibly
remedy
shipped
submitted

suggested
territory
valuable
vary
wholesale
worrying
73%
choosing
commercial
coupon
cushion
description
enrollment
fashionable
government
hers
impression
instrument
issued
Latin
meant
ninth
orchestra
previous
profitable
prosperous
realizing
receiving
responsible
type
vicinity

72%
accordance
admission
alfalfa
announce
applicant
bargain
based
believing
disagreeable
disposal
elsewhere
examination
examine
extreme
fortunate
glorious
illustration
imagine
majority
medicine
mental
profession
qualities
really
reference

respectfully
salesman
71%
assurance
barely
billed
braid
business
confirming
control
democrat
genuine
identify
personality
principal
reliability
reservation
satisfy
senior
strictly
usually
weren't

70%
advancement
alley
altogether
carrying
contemplating
contrary
disgusted
electrical
entitled
evidently
furniture
institute
literature
practice
premium
sincere
splendid

STEP 11—66%

69%
accordingly
benefit
candidate
choir
circumstances
considerably
doesn't
equally
equipment
gradually
invoice
missed
politics

presence	attitude	60%	meter
similar	bass	absolutely	opportunity
stomach	capacity	allotment	probably
terrible	coarse	assigned	55%
various	corporation	assume	acceptance
68%	electricity	attorney	annual
accomplished	executed	beginning	catalogue
available	foreign	conservatory	installment
estimated	generally	council	official
label	inquiry	decision	practically
niece	practicing	demonstration	
separate	registration	excellent	STEP 13—50%
successful	renewal	exhibit	54%
67%	stopped	inferior	athletics
advisable	63%	organization	completely
appreciated	administration	planned	hastily
constitution	assistance	response	necessity
engineering	auditor	safely	occasion
etc.	awfully	supervisor	personally
exceptional	basis	59%	preliminary
instructor	civics	acquire	quantities
patron	confirm	appreciation	quantity
prosperity	congratulate	co-operation	Sabbath
substitute	examiner	crochet	straightened
welfare	librarian	excitement	53%
66%	readily	existing	advertisement
assignment	timothy	inducement	agricultural
clothe		planning	bulletin
demonstrated	STEP 12—58%	science	community
distribution		secretary	extension
employee	62%	talent	geometry
magazine	acknowledge	58%	merit
mechanical	appearance	announcement	principle
practical	aren't	consequently	52%
preparation	interfere	consultation	acquainted
subscription	naturally	good-bye	alumni
succeed	nickel	individual	ambitious
sympathy	particularly	maturity	associate
variety	possession	relieved	client
65%	semester	sense	compliment
amendment	urge	57%	cordially
congratulation	61%	ballot	correspond
data	actually	carnival	referred
exclusively	additional	cordial	remembrance
experience	calendar	disappoint	superintendent
illustrated	certificate	grateful	51%
lose	commission	legislation	arrangement
prefer	co-operative	remittance	campaign
resource	customary	specification	disappointment
studying	exhausted	56%	enthusiastic
succeeded	heretofore	administrator	financial
surplus	inquiries	appreciating	girlie
unusual	losing	association	permanent
64%	ninety	co-operating	50%
associated	organized	crocheting	bureau
assortment	original	disease	communication

regretting
sincerely
solicit
thorough

49%

enormous
license
materially
necessary
physical
responsibility

48%

all right
ere
exceptionally
familiar
inconvenience
merely
possibility
professional
receipt

47%

auntie
authority
definite
soliciting

46%

attendance
consequence
disappointed
immediately

STEP 14—42%

45%

immediate
rec'd
specially
sufficient
surgery

44%

assessment
extremely
leisure
possess
thoroughly

43%

accredited
annually
anticipate
circuit
epidemic
especially
judgment
notary
satisfactorily

42%

commissioner
correspondent
politician

41%

algebra
bonus
continuous
enthusiasm
prior
privilege

40%

acquaintance
exhibition
immense

39%

canvass
convenient
courteous
recommend
representative
scientific
thesis

38%

executive
originally

STEP 15—34%

37%

analysis
equipped
fundamental
mortgage

36%

fraternally
unusually

35%

efficient
physician

34%

affectionately

33%

committee
correspondence
occasionally
referring
tuberculosis

32%

accommodate
anticipating
apparatus
characteristic
unnecessary

31%

candidacy
confirmation
inst.

STEP 16—27%

30%

efficiency
lieutenant

29%

accompanying
guarantee

28%

convenience
peculiarities

27%

chautauqua
essential
guaranteed
X-ray

25%

recommendation
schedule

24%

appendicitis
conveniently
pneumonia

STEP 17—21%

23%

anniversary
grippe
rheumatism

21%

Hallowe'en

20%

definitely
ingredients

19%

phosphorus

STEP 18—16%

18%

affidavit

16%

zephyr

SECTION XV

THE IOWA SPELLING SCALE

GRADE VIII

GRADE VIII

STEP 1—100%			
able	body	dinner	herself
about	book	done	high
above	bottle	dream	hill
add	bought	dust	him
added	box	each	himself
adding	brick	earth	his
advance	bring	east	hog
afternoon	brother	easy	holding
again	bunch	eat	horse
age	but	edge	hot
ago	butter	eighty	house
all	by	end	hunt
alone	call	enjoy	hunting
along	called	eye	ill
am	calling	face	important
an	came	fail	in
and	camp	fall	inches
another	can	farm	ink
anything	car	farming	inside
apple	card	feet	into
are	care	few	is
army	cash	filled	it
around	cause	fine	job
art	cent	fire	July
as	child	fishing	June
ask	children	food	just
at	city	foot	keeping
away	class	form	kid
baby	clean	found	kind
back	clear	free	kinder
backing	close	from	lake
bad	coach	gained	land
ball	coal	get	large
band	cold	girl	last
bank	come	give	late
banking	contest	given	law
bat	corn	go	lay
bay	cost	going	leader
be	country	gone	left
because	cow	good	leg
been	cross	got	less
behind	cup	grade	let
being	dad	grain	letter
bell	danger	greater	life
belong	dare	half	like
below	darling	happy	list
best	date	has	little
better	day	hat	live
big	December	have	lived
bill	decline	hay	liver
bird	deed	head	lives
blank	degree	help	load
board	did	her	long
	died		look
			looking

love	partly	silk	thousand
low	payment	sit	three
mad	pen	six	time
mail	people	size	train
mailing	person	slow	treat
make	pie	small	tree
making	place	smart	trust
man	plate	snow	trusting
many	play	so	trying
market	pleased	soft	twenty
mate	poor	sold	under
may	power	somewhat	understand
me	prevented	sound	understanding
mean	put	spelling	up
membership	question	spend	use
message	rail	spent	value
milk	raised	spoke	waiting
mill	range	sport	walk
mine	read	stamp	wall
money	reader	start	wanted
more	ready	started	was
most	real	starting	wash
mother	reason	state	watch
move	red	stated	water
must	rent	station	way
my	report	stay	we
named	request	stick	well
nature	rest	still	were
nearly	return	stock	what
net	rich	stone	whatever
next	ride	stood	wheat
nice	rock	store	wheel
night	room	storm	when
nine	round	stranger	where
nobody	rug	study	while
noon	rule	subject	who
not	run	such	wife
note	rush	summer	will
nothing	said	sunshine	willing
object	sample	take	wind
office	Sat.	talk	wire
oil	saw	teach	wise
old	say	teaching	with
oldest	school	tell	without
on	see	telling	wood
once	seeing	ten	work
one	send	tent	worked
open	sending	test	worker
order	set	thank	working
out	setting	thanking	world
over	sheep	that	would
overcoat	ship	the	woven
own	shoe	them	wrote
pack	short	thing	year
page	should	think	yellow
paint	show	thinking	yes
paper	sick	this	yet

you
yourself
zone

STEP 2—99%

abstract
account
act
action
address
after
agent
ahead
air
also
amount
answer
any
anybody
anyhow
April
arm
asking
ate
attend
Aug.
aunt
awhile
bake
banker
barn
bottle
bee
before
between
black
block
blood
blue
boat
booklet
boss
bother
boxes
boy
brain
branches
bright
bringing
brush
build
built
bushel
cannot
cap
car

carry
case
catch
cattle
chain
chair
charge
charged
chart
cheer
church
cities
classes
cleaned
clothing
club
coat
coffee
coin
company
conduct
contract
cook
correct
could
count
court
cover
covering
cream
cut
cutting
dandy
dark
dead
deal
dealing
dear
debate
deep
delay
depending
discount
display
district
dog
doing
down
dress
drew
drill
drop
drug
drum
duty
early
earning

evening
ever
every
exchange
expected
express
fact
factory
failed
far
farmer
fast
faster
father
favor
fear
feed
fell
fellow
fight
figure
file
fill
filling
finding
finish
fish
fit
five
flesh
for
force
forgive
formed
fort
Friday
friend
front
gain
gate
gave
gift
glad
glass
glove
goat
gold
goose
green
grew
ground
hair
handed
handy
happen
hard
harder

hate
heard
heat
heavy
helping
here
history
hit
hold
holder
home
hotel
hour
how
however
hundred
hurry
ice
if
inch
instead
instruction
invite
invited
ivory
Jan.
January
joy
judge
keep
kill
kindly
king
kiss
know
lace
ladies
lady
landing
larger
learn
learning
leaving
light
located
longer
longest
looked
lost
lot
loved
lovely
lower
luck
lump
lunch
made

mailed	playing	settlement	they
maker	please	seven	thin
mark	pleasure	seventy	third
married	pocket	several	those
master	point	shade	thought
match	present	shall	thus
matter	press	shame	ticket
Monday	print	share	tip
mostly	printed	she	to-day
mountain	printer	shut	told
mouth	produce	sickness	took
Mr.	product	silver	top
much	protest	simple	town
mud	provided	sin	township
music	pull	sir	toy
myself	pure	sister	trade
name	quart	sixty	trip
nation	quick	skate	trunk
near	railroad	sleep	try
never	rain	slip	two
new	raise	smaller	unable
nicely	rate	snowing	union
normal	raw	soil	unless
north	reach	some	us
nose	reading	something	used
notice	reduced	sometime	valued
Nov.	reduction	son	wagon
number	remain	song	waited
nut	removed	soon	wake
oats	rented	sooner	walked
Oct.	renting	space	want
of	repeat	spell	wanting
off	reply	spot	war
only	result	spring	warm
outside	rice	square	washing
oven	ring	stage	watching
overlooked	river	stamped	went
packing	rolling	stand	western
paint	roof	standing	white
painting	rubber	staying	why
papa	running	stove	wild
park	rust	strongest	win
part	sack	stunt	window
party	safe	sugar	winter
pass	same	Sunday	wish
patch	sand	sweet	wished
pay	sat	swell	wishes
peace	score	table	wishing
peach	seat	taken	within
personal	second	talking	word
phone	secure	tank	worth
pick	seed	teacher	wrong
picking	self	teeth	yard
picture	sell	tenth	yesterday
pig	selling	than	your
pine	sent	then	zero
placed			

STEP 3—98%			
acre	chicken	feeling	lift
acted	chum	felt	liked
acting	cleaner	fifty	listed
active	cleaning	first	living
actor	clearly	fixed	loaded
against	clerk	flat	local
aid	closed	flower	locate
alive	cloth	forget	location
among	coast	former	loud
answered	colder	four	lung
answering	colt	frame	machine
anyone	condition	French	maid
anywhere	construction	frost	maple
aside	contain	fruit	March
asleep	continue	fur	marking
auto	cooking	furnish	May
aware	cool	gather	meal
backed	cord	germ	meantime
basket	corrected	grant	measure
bean	cottage	granted	meat
bed	cotton	grass	meet
began	counting	greatest	method
begun	crop	growing	middle
behalf	daily	hand	might
belonging	damage	hang	mighty
belt	damp	hardly	mind
bench	dance	hardware	Miss
beside	daughter	health	mistake
Bible	dealer	heap	month
birthday	debt	hear	monthly
blame	Dec.	heating	morning
born	delighted	held	moved
branch	depend	herewith	neck
bridge	deportment	highest	news
broke	die	hole	noise
broken	direct	honest	none
brought	do	idea	noted
building	don't	improved	November
burn	door	income	now
buy	draft	inform	offering
buying	dresser	iron	older
cake	drive	island	orange
calf	egg	jar	other
careful	eight	jump	our
carpet	eighteen	jury	ours
cat	else	kindness	package
caused	English	kitten	parties
center	entire	lamp	paying
chance	even	lame	per
change	everything	largest	pillow
changed	example	laugh	pink
chapter	excuse	learned	plenty
charming	expecting	leather	popular
cheap	extend	leave	post
check	family	leaves	posted
	fat	lesson	pound
	feeding	liberty	pretty

prevented
price
printing
prize
production
promise
proper
property
proud
provide
queen
race
reached
reaches
reaching
recall
record
recover
refuse
regular
regulation
relation
remark
remove
renter
repair
require
reserve
respect
respond
retail
road
rushed
sad
sale
saying
season
section
seen
Sept.
September
seventh
shop
shot
showed
side
sight
sign
simply
singing
snap
snowed
somewhere
sort
south
speed

spending
steam
step
stop
street
strongly
student
sum
sun
supper
taxes
tested
thereafter
thick
thirty
thread
tile
till
tire
ton
topic
trained
travel
treated
treatment
true
turkey
twelve
twice
understood
upon
valley
very
visit
vote
voter
walking
washed
watched
weak
week
welcome
west
wet
whenever
whereby
which
wide
witch
wonder
worm
worse
write
yearly
young

STEP 4—96%
97%
advanced
adventure
advise
afterward
agree
aim
almost
already
ample
animal
ans.
appointed
base
beat
beauty
beg
begin
bet
blessed
blew
blow
bluff
boiler
both
brand
bugs
builder
button
buyer
calm
carried
cast
cheaper
checked
chill
chop
clay
clock
composition
consider
conversation
crib
cure
dated
dearly
deeply
deliver
depot
devoted
direction
dodge
dose
dressed
drilling
during

duties
ease
education
elected
election
eleventh
enough
entered
eve
everyone
excited
expert
extent
extra
factor
failure
Feb.
female
fence
film
find
finished
folder
follow
forest
fortune
freeze
fully
fun
funny
furnished
gaining
garden
gentleman
glasses
glee
gotten
gown
grand
grandfather
great
greatly
hall
handle
having
hearing
improve
included
increase
inquire
insist
inspect
instruct
interest
introduced
issue
itself

I've	requested	beaten	general
joined	required	became	gladly
kitchen	resident	become	gland
knowing	retain	beyond	goldfish
labor	returned	bid	greeting
leaf	right	bigger	harvest
least	rod	birth	helped
lecture	saved	brown	hereafter
letting	scale	buggy	homesick
lone	settle	burden	homestead
lonesome	shed	busy	hoped
lumber	sheet	cared	hurt
meeting	shipment	carrier	ideal
member	shortly	caught	illness
mend	single	cigar	indeed
miss	sink	circus	industry
moment	sixth	closer	information
movement	slipper	collect	inviting
need	sorry	collection	joke
needed	speak	color	kept
needle	special	comfort	killed
nerve	spread	companion	known
obtain	stair	connect	language
October	stories	constant	later
opened	stuff	copy	length
or	suffering	correctly	level
otherwise	suppose	couple	likewise
outfit	tie	cousin	limited
packed	tired	covered	lowest
pain	to	dearest	lucky
passing	total	death	ma
payable	trace	demand	manage
pencil	trouble	desire	mass
per cent	turn	directly	minister
perfect	turned	dispose	minute
pin	united	does	moderate
plain	velvet	dollar	narrow
plan	visiting	dread	nearer
planted	whom	enclose	neat
poorly	withdraw	enjoying	neglected
post card	wonderful	entering	nor
potatoes	wool	everybody	nurse
prefer	youth	expressed	odd
problem		extended	officer
progress	96%	federation	ordering
prospect	according	field	ourselves
pump	addition	fifth	owe
putting	addresses	finest	owner
rack	advantage	flavor	pair
rainy	always	floor	particular
ranch	appeal	forgot	pavement
rank	appear	foundation	period
recess	appeared	frankly	phoned
reduce	apply	froze	porch
remind	attended	fund	postage
render	average	gallon	prepare
reputation	barrel	game	president
	bear		

pride
primary
prompt
properly
public
rained
raining
rapid
refused
relative
remained
remember
reported
resulting
rip
rose
seal
seem
serve
served
settled
shape
shock
signed
since
sock
soldier
someone
sorrow
speaker
steel
strike
suit
system
talked
team
territory
text
thankful
there
these
Thursday
tiny
to-night
towel
training
trial
Tuesday
until
upper
vision
weary
wedding
weekly
won
worst
yourselves

STEP 5—94%

95%

absence
accept
adjust
advised
afraid
allow
amounting
anyway
approved
arrived
asked
August
awaiting
barley
beef
beet
breakfast
broad
cane
cement
central
checking
Christmas
circular
climate
coasting
commerce
common
complete
concluded
connected
connecting
contained
content
corner
crazy
credit
delivered
deserve
desired
dirty
doctor
domestic
dwelling
elect
entertain
establish
exact
except
explain
factories
fair
famous
fancy

farther
feature
feeder
feel
fifteen
final
fix
flour
football
fourteen
friendly
frozen
furnishing
future
garage
gas
geography
getting
globe
graduate
grandma
grit
guess
ha
habit
honor
hurried
husband
I'll
include
including
intended
interested
investment
join
joyful
kisses
knew
knot
limb
lodge
loyal
manner
mister
moral
Mrs.
musical
national
neighbor
newspaper
northern
noticed
obtained
ocean
offered
oh

owned
painter
pearl
pending
performed
perhaps
piano
played
possible
postal
presented
produced
program
promptly
protected
proven
providing
published
pupil
quickly
raising
recovered
regret
relationship
rendered
renew
returning
ribbon
sash
saving
says
scout
search
service
serving
shipping
skirt
sleet
soap
steady
supplies
supply
support
supposed
sure
sweater
taking
temple
their
themselves
though
throat
through
throughout
title
track
tract

transportation	foolish	spirit	finger
tread	fuel	standard	fitted
uniform	garment	statement	folk
visited	gentlemen	strength	funeral
voice	gray	studies	furnace
waist	grind	substitute	gasoline
woman	grove	success	group
written	guide	supplied	hence
	hen	tanning	holiday
94%	higher	tax	honestly
absolute	household	term	humor
advising	human	thereof	improving
afloat	importance	vacation	institute
although	increasing	wait	international
artist	informed	wear	introduction
ashamed	inspector	winner	ironing
assembly	intend	worthy	justified
assist	interesting	Xmas.	justify
Ave.	junk		kindest
avenue	liberal	STEP 6—92%	latest
badly	lie	93%	liable
balance	lighting	adjustment	limit
bite	likely	anxious	loving
bottom	listen	apart	main
bulk	lovely	application	manager
candle	maintain	arrive	modern
can't	model	assured	nap
carefully	moving	attached	neglect
cashier	natural	attain	nevertheless
certain	no	attempt	notify
chairman	outlined	attending	opening
changing	permit	avoid	organ
cheerful	pertaining	boarding	pa
citizen	pole	booth	penny
complaint	powder	clever	plainly
connection	preacher	cloudy	pools
consideration	priced	concert	prepaid
convention	process	confined	private
cough	promotion	consist	proceed
county	prove	containing	proved
curtain	publisher	correction	quiet
dancing	quality	decrease	quotation
dangerous	quite	design	recite
debating	rapidly	didn't	refund
democratic	reception	division	regardless
dice	refreshment	dreadful	reliable
difference	register	enclosed	requesting
difficult	replying	encourage	scrap
directed	rough	entirely	seemed
due	row	exam.	server
extensive	rye	expired	sire
fairly	satisfaction	fashion	situation
fare	scarce	fashionable	skating
fault	shopping	favor	slide
favorable	silence	federal	smooth
fee	sore	fever	struck
figured	spare		struggle

style
subscriber
suitable
surface
taste
taught
telephone
tend
therefore
throw
tight
touch
tried
uncle
unpaid
useful
wasn't
weather
weight
whole
wholesale
whose
women
wondering
worry
you'll

92%

ability
absent
accomplish
adjusted
advancement
appointment
article
attention
author
await
break
breaking
butcher
capable
captain
chief
closely
closing
considerable
considering
constitution
cooler
crippled
delayed
delightful
detail
director
discover
disposed
dozen

eager
employed
enjoyed
enter
entitle
evidence
excess
expensive
explaining
followed
forced
forgotten
forth
fullest
government
grammar
headache
healthy
hello
hereby
housekeeping
I'd
inclined
increased
indicate
instance
instant
instructed
instructor
invitation
lbs.
linen
mental
merry
met
obligation
parent
parlor
pastor
piece
placing
policy
prepared
presume
prevail
previous
promised
quarter
quit
rabbit
recent
regard
represent
roll
route
ruin
saddle

salary
secured
seldom
seller
serious
social
submit
Thanksgiving
tickled
traveling
wage
wearing
Wednesday
workmanship

91%

adopted
affair
agriculture
ambition
applied
attraction
baking
believe
biggest
bit
blackberries
bowl
cabinet
certainly
cherries
choice
circulation
concern
creamery
creep
crew
different
drama
effort
enroll
explained
firm
ford
German
glorious
graduation
grocery
handled
handling
herein
improvement
inclose
internal
invoice
legal
loan

machinery
majority
material
mention
million
needing
neither
notified
oversight
parcel
perfectly
position
purchase
purpose
responsible
sanitary
sew
sis
stayed
to-morrow
valuable
we'll

STEP 7—88%

90%

actual
addressed
admit
arrange
blizzard
blooming
college
combination
comfortable
conclusion
confidence
considered
copies
courage
coy
cute
decided
discontinued
doubt
doubtless
either
employer
established
estimated
examined
expense
expression
favorite
fierce
following
forward

frequently	agreed	weigh	respectfully
fresh	argument	won't	rifle
gee	arrival	writing	Saturday
grown	arriving	88%	sewing
guest	banquet	ache	sitting
helpful	billed	ankle	society
I'm	cedar	approval	source
impression	choose	assure	studied
inclosed	circumstances	assuring	submitted
insurance	collar	attorney	surplus
involved	colored	automatic	view
issued	continued	automobile	waste
item	dairy	braid	weighed
largely	deliveries	Bro.	87%
lately	delivery	cartoon	accordingly
liquid	discourage	celebrate	announce
loss	entertaining	coming	arranged
madam	error	commercial	attach
manual	exactly	comply	booster
nephew	fourth	contrary	calves
nineteen	freight	credited	canned
oblige	generous	current	cellar
o'clock	gradually	decide	character
ordered	graze	deposit	collecting
post office	grip	deserved	commence
preparing	happened	disposal	conference
proposition	hesitate	durable	convince
publication	independent	earnest	course
purchased	insert	engineer	data
realize	installed	exciting	destination
recently	investigate	exercise	earliest
remembered	laid	fern	enclosing
remembering	mentioned	fortunate	fitting
renewed	numerous	forty	generally
representation	opera	forwarding	gratitude
represented	ordinary	friendship	hadn't
riding	past	further	happiness
rural	pattern	ghost	haste
securing	personality	growth	hospital
select	picnic	hare	illustrated
selection	plum	headquarter	institution
series	possibly	identify	intention
shipper	practice	impossible	investigation
slept	profitable	inasmuch	junior
slight	queer	latter	knowledge
slightly	reasonable	manufacture	misses
splendid	satisfactory	misunderstanding	namely
suggest	saver	occupied	ought
treasurer	selected	plow	owing
university	shown	prayer	realizing
vacant	stating	procured	regarding
violin	strawberries	profit	registered
89%	suggested	proof	remedy
accident	supervision	qualities	remit
across	that's	quoted	republican
activity	type	received	salesman
agreeable	volume	reference	sincere

slippery
superior
telegram
toward
universal
urge
weren't
we've
worried
yoke
you'd

STEP 8—84%

86%

accordance
ambitious
bracelet
carrying
companies
customer
democrat
description
development
easily
effect
entry
equally
examine
exception
finally
forwarded
handkerchief
honorable
inclosing
lovingly
medicine
missed
obliged
Prof.
really
receive
reservation
resigned
straight
strict
using
usual
voting
wouldn't

85%

auditor
brief
chose
concerning
contemplating
cordial

crowded
examination
fabric
furniture
hustling
influence
journal
library
loose
neighborhood
politics
positive
premium
quote
senior
shipped
shoulder
signature
stationary
strictly
surprise
terrible
truly
utmost
whether

84%

advice
allowed
attractive
authorized
bog
capital
confident
couldn't
described
destroyed
etc.
experience
foreign
heir
illustrating
instrument
Latin
literary
meant
operation
opinion
pardon
patent
patient
possession
prosperity
satisfy
stomach
tattooing
transit

83%

acknowledge
administration
advertise
association
awful
business
channel
compelled
contemplated
crocheting
desiring
enrolled
entertainment
envelope
favorably
filing
gravy
management
organize
organized
profession
raiser
refer
satisfied
secretary
stopped
studying
theater
together
too
vicinity
writer

82%

accomplished
additional
agency
altogether
annual
assortment
attitude
available
beginning
crowd
develop
difficulty
disagreeable
electrical
elsewhere
engineering
entitled
evidently
existing
figuring
handsome
hoping

illustration
manufacturing
official
operated
operating
subscription
transfer
various

STEP 9—79%

81%

acceptance
acquire
choosing
constantly
convinced
daddy
dependent
duplicate
examiner
February
graduating
individual
its
lining
lose
merchandise
particularly
science
timothy

80%

admission
associated
assume
assurance
commission
confer
congratulation
decision
enormous
enrollment
equipment
exceptional
exhibit
explanation
extreme
forenoon
genuine
hasn't
hailed
isn't
jobber
label
nervous
patron

practical
regularly
responsibility
succeed
supervisor

79%

appreciate
assistance
ballot
bass
candidate
certificate
Christian
civics
distribution
executed
hers
inducement
legislation
magazine
maturity
maybe
principal
readily
registration
unusual

78%

advertised
appreciated
assigned
assistant
bargain
believing
clothe
confirm
control
cushion
formerly
interfere
pleasant
relieve
resource
surprised
talent
worrying

77%

actually
consequently
correspond
coupon
crochet
demonstrated
demonstration
disgusted
haven't
imagine

mamma
ninety
organization
prosperous
successful
sympathy

STEP 10—73%

76%

applicant
electricity
excitement
familiar
heretofore
immediate
merely
orchestra
physical
planned
preparation
presence
receiving
relieved
requirement
similar
variety
vary

75%

advisable
algebra
associate
awfully
carnival
co-operation
disease
Dr.
employee
mere
naturally
necessity
sense
Tues.
welfare

74%

advertising
alfalfa
appreciating
basis
benefit
campaign
catalogue
congratulate
consequence
conservatory
especially

excellent
exclusively
merit
necessary
quantity
reliability
response
separate

73%

aren't
choir
commissioner
committee
co-operative
extension
inquiry
meter
ninth
possibility
practicing
renewal
safety
straightened
succeeded

72%

agricultural
alley
appearance
capacity
community
confirming
corporation
notary
usually

71%

administrator
amendment
attendance
coarse
compliment
cordially
customary
installment
niece
soliciting
surgery

70%

advertisement
appreciation
arrangement
assignment
based
bureau
considerably
convenience

exhibition
hastily
original
preliminary
specification

STEP 11—66%

69%

acquainted
correspondent
disappointed
epidemic
inferior
license
sincerely
specially

68%

athletics
doesn't
exceptionally
mechanical
occasion
passed
probably

67%

allotment
announcement
authority
bonus
definite
efficient
essential
exhausted
librarian
nickel
personally
planning
professional
regretting
remittance
sufficient

66%

absolutely
consultation
ere
good-bye
quantities
receipt
unnecessary

65%

barely
communication
completely
executive

extremely
financial
inquiries
literature
representative

64%

calendar
leisure
opportunity
solicit

63%

annually
practically
semester
superintendent

STEP 12—58%

62%

client
convenient
council
immense
permanent
principle

61%

accredited
characteristic
courteous
losing
scientific

60%

analysis
correspondence
mortgage
Sabbath

59%
enthusiastic
lieutenant
unusually

58%

all right
alumni
anticipate
assessment
candidacy
continuous
fundamental
geometry
girlie
physician
possess
thorough

57%

thoroughly

56%

accompanying
acquaintance
auntie
originally
recommendation

55%

anticipating
circuit
disappoint
equipped
immediately

STEP 13—50%

54%

confirmation
materially
recommend
thesis

53%
pneumonia
referred

52%

satisfactorily

51%

bulletin
disappointment
grateful
referring

50%

apparatus
co-operating
inconvenience
judgment
rec'd

49%

efficiency
inst.
remembrance

48%

grippe
prior

47%

affectionately

46%

politician
tuberculosis

STEP 14—42%

45%

affidavit

44%

ingredients
privilege

43%
guarantee
rheumatism

42%

appendicitis
Hallowe'en

41%

conveniently
enthusiasm
guaranteed
occasionally

39%

accommodate
peculiarities

38%

schedule

STEP 15—34%

37%

definitely
fraternally

35%

anniversary

34%

zephyr

33%

chautauqua
X-ray

31%

canvass

STEP 16—27%

28%

phosphorus

APPENDIX

EXHIBIT A

Set I, list 1 illustrates the form in which words were sent to the various schools.

Iowa Spelling List—1-1

1 and	26 recently	51 fraternally	76 attractive
2 me	27 pupil	52 broke	77 management
3 some	28 correct	53 cake	78 toy
4 think	29 walk	54 blood	79 singing
5 say	30 Dr.	55 renewal	80 forenoon
6 each	31 happen	56 confident	81 durable
7 way	32 top	57 colored	82 per cent
8 great	33 window	58 roll	83 kitten
9 put	34 shipping	59 clock	84 plow
10 picture	35 wife	60 forced	85 faster
11 market	36 standard	61 outfit	86 breaking
12 folk	37 printed	62 thorough	87 brand
13 real	38 fifty	63 waste	88 soap
14 sorry	39 cream	64 grown	89 calendar
15 leave	40 recommend	65 stick	90 anniversary
16 aunt	41 prior	66 deep	91 extreme
17 credit	42 crowd	67 organized	92 possess
18 supply	43 forwarded	68 exceptional	93 kinder
19 street	44 cool	69 weigh	94 slept
20 profit	45 rush	70 applicant	95 dice
21 begin	46 represented	71 porch	96 federal
22 net	47 publication	72 staying	97 insert
23 May	48 blow	73 instructed	98 likewise
24 brought	49 fixed	74 slightly	99 identify
25 Oct.	50 newspaper	75 tie	100 daddy

EXHIBIT B

Instructions sent with spelling material to all cooperating teachers.

INSTRUCTIONS TO TEACHERS

This work is a part of a state wide effort to grade a list of most commonly used words. The success of the work will depend upon the accuracy with which you and all other teachers follow these directions.

Please have your pupils spell one list each day; 100 words if you are teaching grades V to VIII and 50 words if you are teaching grades II, III or IV. Pronounce each word distinctly and make sure that each child understands the word. Give a short illustrative sentence in all cases where different words have the same or similar pronunciation. The words are to be given without previous study or drill of any kind. Give plenty of time but no assistance.

Have the work done with pencil, on paper of uniform size, writing two columns on a page but do **not** write on both sides of the paper. The child should write his name, sex, age, and grade and the name of his school and city at the top of **each** sheet. Pronounce the words in order numbered and have the pupils number the words as they write them. This is very important.

Impress upon the children that in case of an error, they are to draw a line through the word and write it correctly above or beside the misspelled word. Words in which one letter has been written over another will be counted wrong, as it is almost impossible to know which was the child's final decision on the spelling.

It is recognized that in the lower grades many of these words are quite unfamiliar to the children and that a large proportion of the pupils will not be able to spell most of the words in the list. The only way, however, to find out what words the children can spell and what words they cannot spell is to give them the opportunity to attempt to spell all the words. Keep them just as happy in the effort as possible by telling them that other boys and girls of the same grade are trying to spell the same words in other schools in Iowa. If you are teaching in grade II or III, it will probably be better to pronounce 25 words in the forenoon and 25 in the afternoon than to give all 50 at once.

If your pupils are in grades VI, VII, or VIII, will you please assist in the scoring by having a few of the stronger pupils detailed each day to check the papers of all members of the class. Caution them that they are not to mark the word in any way but only make a cross through the number of the word which is misspelled. Four children can correct the papers for a room in twenty to thirty minutes and you will doubtless have no difficulty in finding some of the pupils who will very gladly do this.

The papers are to be collected each day and tied together. At the end of the ten days, the ten bunches of papers which represent the ten days' spelling of the pupils in your room, are to be sent tied in a single package to your superintendent. He will then forward these papers with all others from your city to the Extension Division. The Extension Division will score the papers from the lower grades and tabulate the spellings from all contributing schools and return the results to your Superintendent.

To the extent that these instructions are carefully followed and your co-operation secured will the results be of value to all the schools of the state. Please give the work your best effort but do not attempt to improve the spelling of the children of your room on these words by assisting them in their spelling in any way.

EXHIBIT C

Cities Co-operating in Spelling Study

Adair	Denison	Lake View	Oskaloosa
Algona	Dunlap	Lansing	Ottumwa
Ames	Eddyville	La Porte City	Pella
Belle Plaine	Eldon	Le Mars	Pocahontas
Belmond	Fairfield	Lineville	Postville
Bloomfield	Glenwood	Manilla	Red Oak
Bonaparte	Grinnell	Manson	Reinbeck
Boone	Griswold	Marengo	Remsen
Britt	Guttenburg	Marshalltown	Rockford
Buffalo Center	Hampton	Montezuma	Rockwell City
Burlington	Hartley	Monticello	Rolfe
Carroll	Hawarden	Moulton	Sheldon
Casey	Hopkinton	Muscatine	Sidney
Centerville	Humboldt	Nashua	Sigourney
Chariton	Humeston	Nevada	Sioux Center
Charles City	Ida Grove	New Hampton	Spirit Lake
Cherokee	Independence	New London	State Center
Clarinda	Inwood	New Sharon	Stuart
Clarion	Iowa City	Newton	Toledo
Clinton	Jewell	Northwood	Waterloo, E.
Corning	Keokuk	Oakland	Waukon
Corydon	Keosauqua	Oelwein	What Cheer
Council Bluffs	Kingsley	Orange City	Williamsburg
Cresco	Knoxville	Osage	Woodbine
Davenport	Lake Mills		

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